ORDER NO. VRD9604M111

Service Manual

Video Cassette Recorder

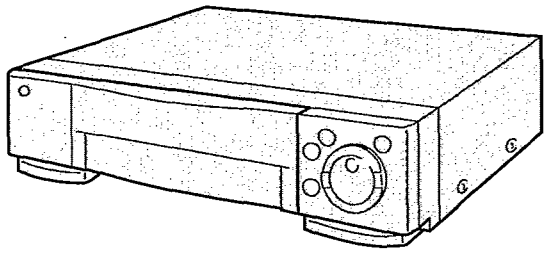
General Description
Adjustment Procedures
Block / Schematic Diagrams
Exploded Views / Parts List

Panasonic S-VHS VHS PAL 625

Hi-Fi HQ

NV-HS900B/EC

K-MECHANISM



SPECIFICATIONS

ITEM	SPECIFICATION		ITEM	SPECIFICATION
POWER	SOURCE: 220−240 V AC 50/60 Hz		AUDIO	INPUT: EURO AV (AV1, AV2) Connectors (21 pin) More than −6 dBV (500 mV), More than 10 kΩ AUDIO IN (AV3) Connector (Phono type) More than −10 dBV (316 mV), More than 47 kΩ MICROPHONE JACK −70 dBV
	CONSUMPTION: 27 watts			OUTPUT: EURO AV (AV1, AV2) Connectors (21 pin) −6 dBV (500 mV), Less than 1 kΩ AUDIO OUT Connector (Phono type) −8 dBV (400 mV), Less than 1 kΩ HEADPHONE JACK −30 dBV, 8Ω
RECORDING SYSTEM	2 rotary heads, helical scanning system			TRACK: 1 track (Normal-mono only) 2 channels (Hi-Fi Sound-Stereo)
	PAL		TAPE FORMAT	S-VHS, VHS Cassette tape (Tape width 12.7 mm)
TV TUNER SYSTEM	NV-HS900B	UHF: CH21~CH69 (PAL I) 75Ω terminated	TAPE SPEED	SP: 23.39 mm/s (PAL), 33.35 mm/s (NTSC) LP: 11.695 mm/s (PAL), 11.12 mm/s (NTSC) Record/Playback Time: SP: 4 hours with 240 min. type tape LP: 8 hours with 240 min. type tape FF/REW Time: 2.5 min. with 180 min. type tape
	NV-HS900EC	VHF I: CHE2~CHS3 VHF II: CHM1~CHM9 VHF III: CHM10~CHU2 VHF H: CHU3~CHS41 (PAL/SECAM B) UHF: CH21~CH69 (PAL/SECAM G) 75Ω terminated	OPERATING TEMPERATURE	5°C−40°C
RF OUT SYSTEM	UHF: 36±6 70^{+2}_{-3} dBμ, 75Ω terminated		OPERATING HUMIDITY	35 % − 80 %
VIDEO	HEADS: 4 rotary heads 1 pair for SP recording, playback and trick play (L-R heads) 1 pair for LP recording, playback and trick play (L′-R′ heads) 1 flying erase head		DIMENSIONS	430 (W) × 107 (H) × 329.5 (D) mm
	INPUT: EURO AV (AV1, AV2) Connectors (21 pin) 1.0 Vp-p, 75Ω unbalanced S-VIDEO IN (AV3) Connector 1.0 Vp-p, 75Ω unbalanced VIDEO IN (AV3) Connector (Phono type) 1.0 Vp-p, 75Ω unbalanced		WEIGHT	5.1 kg
	OUTPUT: EURO AV (AV1, AV2) Connectors (21 pin) 1.0 Vp-p, 75Ω unbalanced S-VIDEO OUT Connector 1.0 Vp-p, 75Ω unbalanced VIDEO OUT Connector (Phono type) 1.0 Vp-p, 75Ω unbalanced		STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red Remote Controller 1 pc. Audio Cables 1 pc. AC Mains Lead 1 pc. S-VIDEO 4P Cable 1 pc. Edit 5P Cable
AUDIO	HEAD: 1 Stationary head (Normal Audio) 2 rotary heads (Hi-Fi 2CH)			

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

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⚠ **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.

Section 1 presents you with technical know how for actual servicing and general information of features and controls, enabling you to become familiar with each function.

Section 2 presents to your mechanical and electrical adjustment information as well disassembly and replacement procedures.

In the case of very common information relating to other models like mechanical adjustments, please refer to the appropriate service manual.

Section 3, 4 contains block diagrams which provides you with information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c. ...

Section 5 contains exploded views and parts list.

Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

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SECTION 1
GENERAL DESCRIPTIONS

1-1. SERVICE INFORMATION

1-1-1. CHANNEL MEMORY IC INITIALIZATION

When replacing the channel memory IC6702, its IC should be initialized.

Note:
1) It should be performed before tuning.
2) Meaning of "INITIALIZATION" is to make dependency in different models and to distinguish between different features.

Method:
1) Connect a jumper wire between TL SERV and TL TEST as shown Location of Test Points & Controls (Page: 2-4).
2) Turn the Shuttle Ring to FF then push the Eject button to set the Service Mode (Test Mode will be appeared on the monitor TV.)
3) Set the Model Code for this model by using 10-key on the Remote Controller Unit as follows.
4) After finishing the initialization, and cancel the Service Mode.

	IR Code No.
NV-HS900B	169
NV-HS900EC	165

Note:1) Set to IR No. when there is OSD button on the Remote Controller.
2) Set to OSD No. when there is not OSD button on the Remote Controller.

1-1-2. SERVICE POSITION

A. CHECKING OF MAIN C.B.A.

When servicing the MAIN C.B.A., take out the MAIN C.B.A. and mechanism from the frame and turn over.

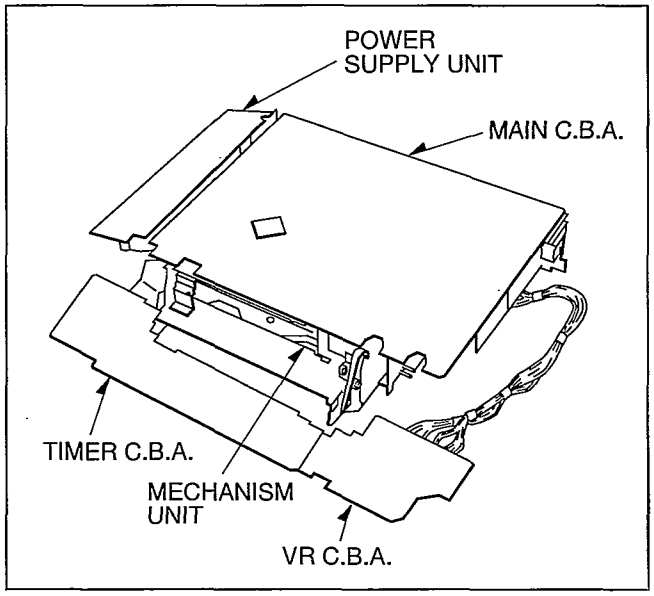


Fig. S1

B. MECHANISM SERVICE POSITION

When servicing the K-Mechanism, take out the mechanism from the MAIN C.B.A. and connect Extention Cable (VFK0889) between the loading-motor connector and P2001 as shown below.
In this position, the following services are possible.

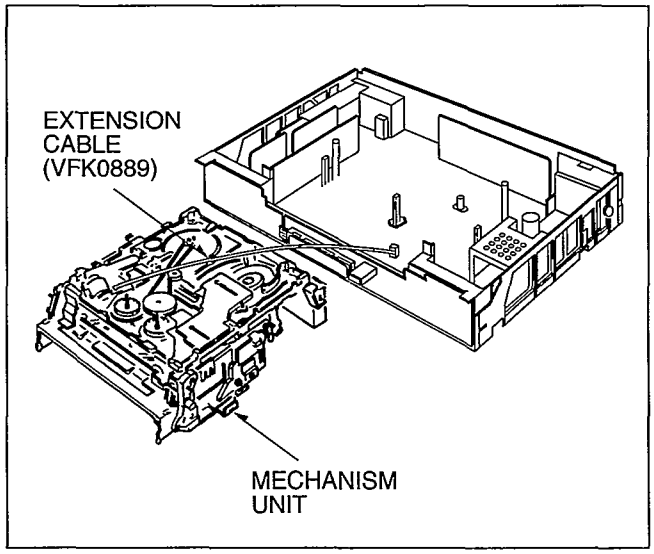


Fig. S2

B-1. CHECKING OF GEAR PHASE ALIGNMENT CONDITION

1) Check gear phase Alignment Condition of Mechanism.

B-2. CHECKING OF LOADING/UNLOADING OPERATION

There are 3 methods for manual operation of loading/unloading operation as follows.

1. HAND OPERATION
   1) Turn the Worm Gear or the Worm Wheel Gear (Remove the Loading Motor Unit) manually.

2. BATTERY OPERATION
   1) Remove the Extention Cable (VFK0889).
   2) Connect the Battery (Manganes-Type R6 (AA) 3pcs./+4.5V) to the Loading Motor terminals.

3. SERVICE INFORMATION DISPLAY OPERATION
   1) Set the Service Information Display mode.
      Turn the Shuttle Ring to FF then push the EJECT button.
   2) Turn the Shuttle Ring to FF then push the EJECT button 7 times to set the Service Mode 7. (The end of display on the Display becomes "--".)
   3) In the above Service Information Display mode, the Loading Motor rotates for Loading operation when the "PLAY" button is pressed.
      The Loading Motor rotates for unloading operation when the "STOP" button is pressed.

Remark:
Use the "SERVICE INFORMATION DISPLAY" mode for a final check of mechanism movement.

B-3. CHECKING OF REEL GEARS OPERATION

1) Move the mechanism to "PLAY" position by loading operation. (Refer to B-2)
2) Turn the Capstan Rotor Unit to check movement of reel gears.

1-1-3. POWER SUPPLY UNITs SERVICE POSITION

Use the extension cables when checking.

PART NO.	PART NAME	PCS	CONNECTION
VFK1140	11-PIN WIRE CABLE	1	P1001 (MAIN) – P1102 (POWER)

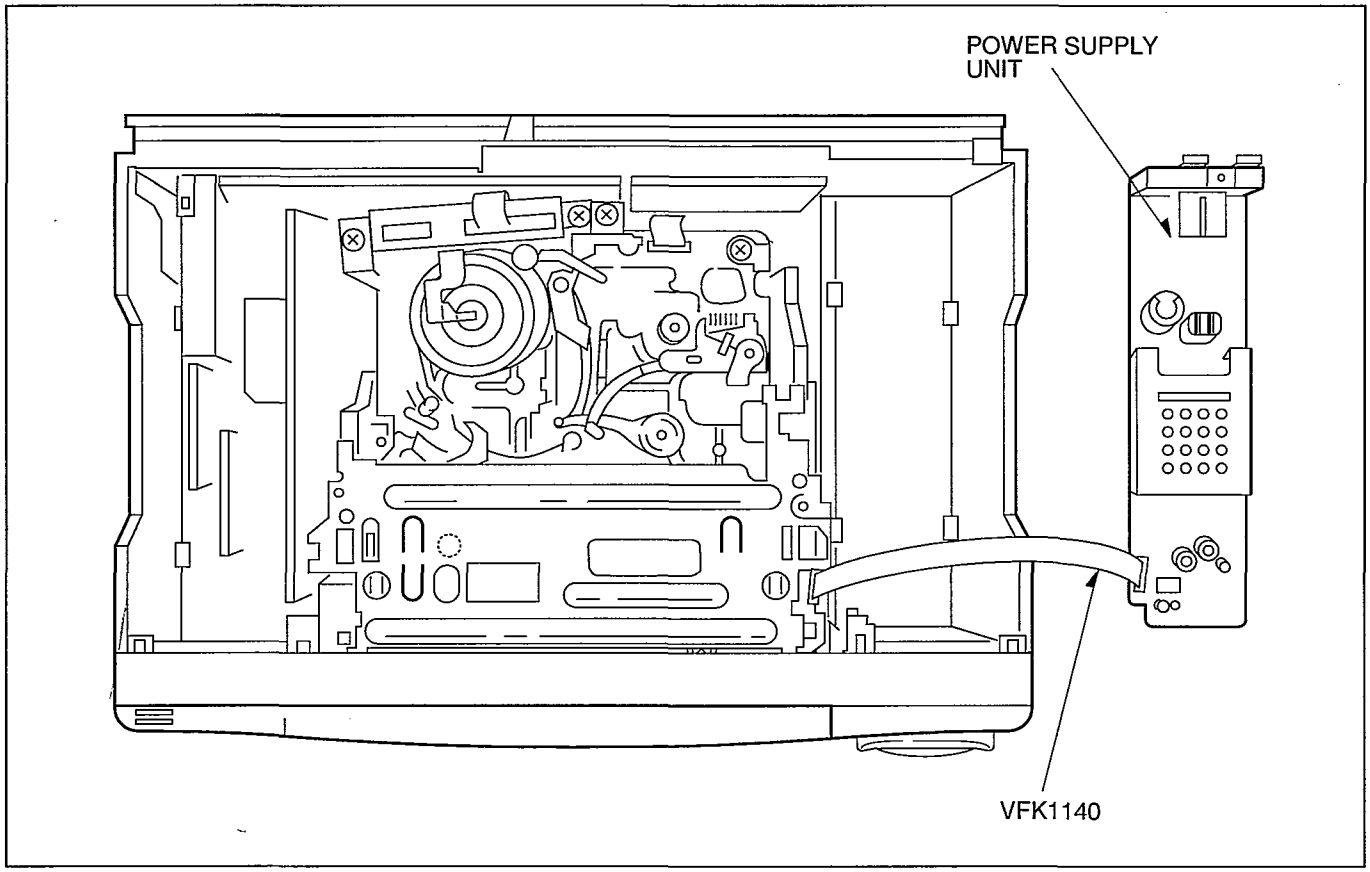


Fig. S3

1-1-4. UPPER CYLINDER REPLACEMENT

A. NEW GLDD CYLINDER

1) GLDD and New GLDD Cylinder
The construction of New GLDD Cylinder has been designed simpler than GLDD Cylinder, and the general performance has been improved.
2) The difference between GLDD Cylinder and conventional cylinder.
(1) GLDD has improved linearity, higher stability of head revolution with oil sealing and higher serviceability with the simpler structure.
GLDD and New GLDD Cylinders are used for step-up range VCR.
(2) GLDD enables less working time to replace upper cylinder unit and cylinder unit due to the following reasons.
1) No Soldering
2) No Screws
Please refer to "Upper Cylinder Replacement" for the detailed replacement procedure.

Note: "GLDD" cylinder stands for the following.
G: GLDD has been developped and introduced from VCRs using G- Mechanism.
LDD: Liquid Direct Drive.

B. UPPER CYLINDER DISASSEMBLY

1) Remove the Top Panel.
2) Remove the Screw (A) and Earth Plate.
3) Lift up the Upper Cylinder.

Note: Do not remove 3 Screws on the Upper Cylinder.

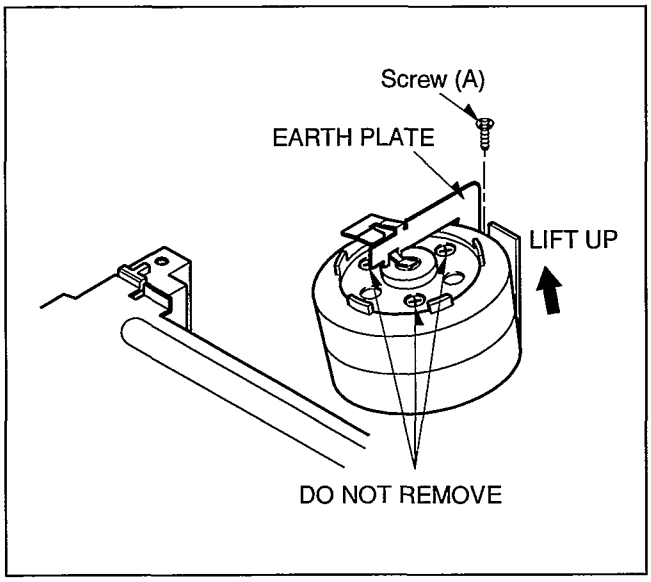


Fig. S4

Do not remove the Rotor Magnet which fixed by 3 screws on the Upper Cylinder.

If it is removed, refer to following method.

1) Install the Rotor Magnet so that the hole (C) on the Rotor Magnet fits to the small projection (D) on bottom of the Upper Cylinder.
2) Tighten 3 screws on top of the Upper Cylinder.

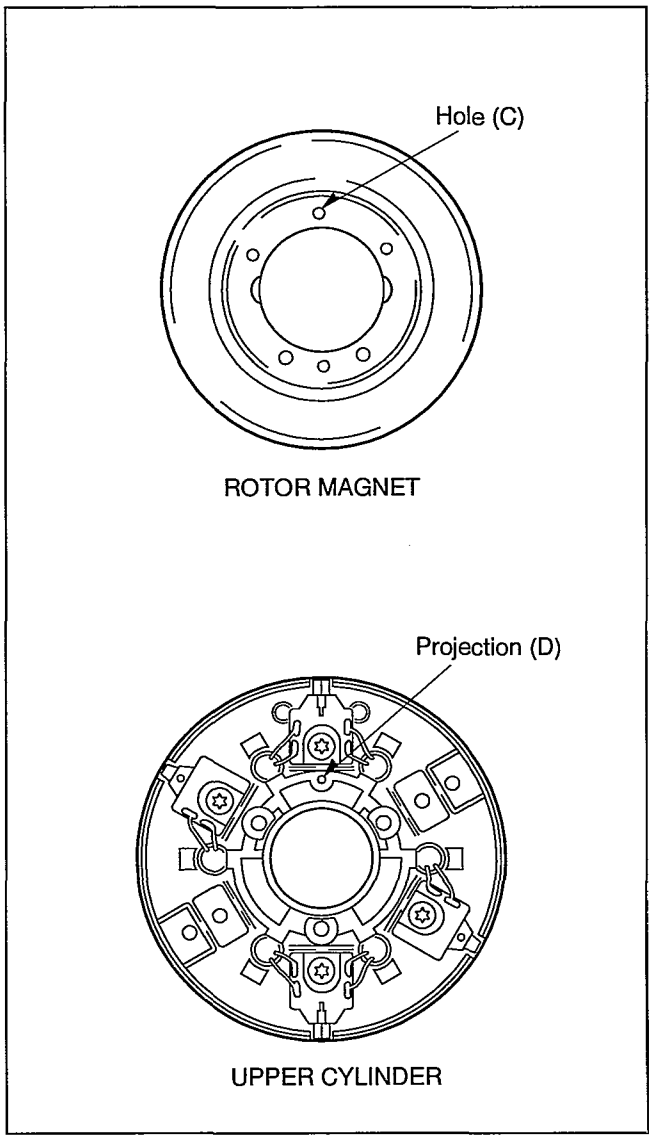


Fig. S5

C. UPPER CYLINDER ASSEMBLY

When reassembling, perform the steps in the reverse order of the DISASSEMBLY METHOD.

1-1-5. NEW GLDD CYLINDER UNIT REPLACEMENT

The Cylinder Unit can be replaced easily by the following method.

1) Remove the Top Panel.
2) Remove the Front Panel Unit.
3) Remove the Mechanism Unit.
4) Remove the Screw (A) and Earth Plate. (Fig. S4)
5) Remove the 3 screws (E) of the Cylinder Unit with a magnetized screw driver.

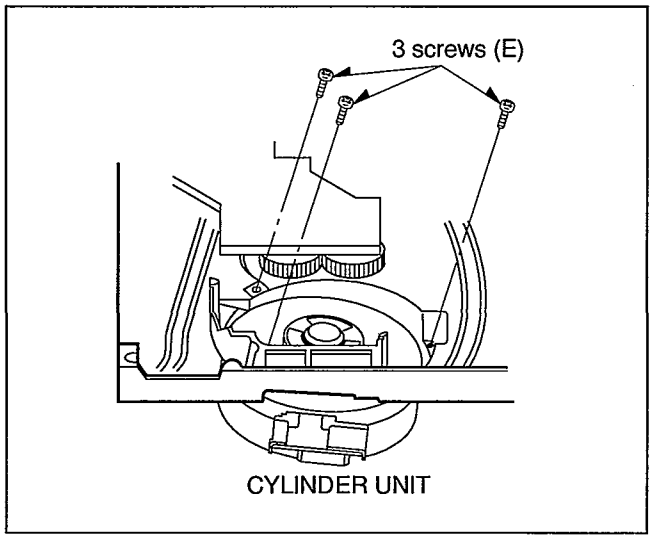


Fig. S6

1-1-6. FLAT CARD CABLE INSTLLATION

When installing the Flat Card Cable on the connector, install the Flat Card Cable with the cable contacts facing the connector contacts.

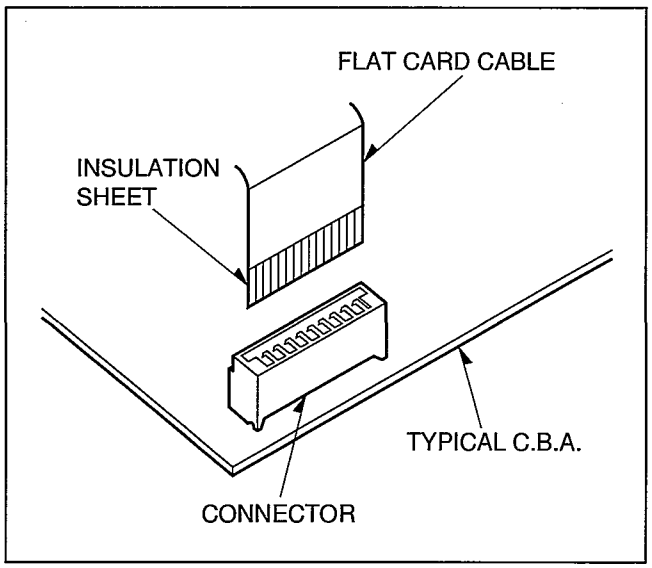


Fig. S7

1-1-7. CAPSTAN STATOR UNIT ASSEMBLY

When replacing the Capstan Stator Unit, the Centre Fixing Tool (VFK0851) must be used to fix the centre of Capstan Stator Unit.

Method:

1) Place the Capstan Stator Unit into position.
2) Loosely tighten the 3 screws.
3) Insert the Centre Fixing Tool (VFK0851) as shown below.
4) Tighten the 3 screws.
5) Remove the Centre Fixing Tool.

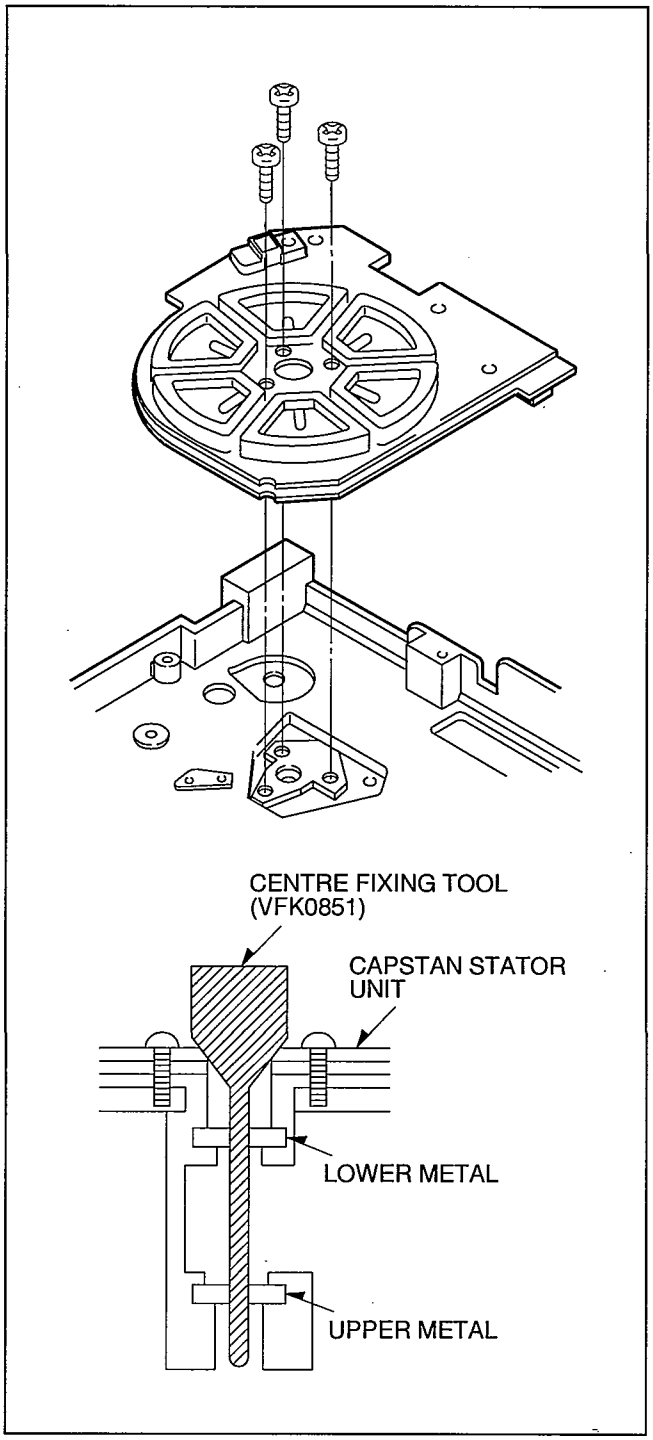


Fig. S8

1-1-8. EJECT OPERATION

The main cam gear rotates in the direction of the arrow. The projection (B) of the carriage connection gear engages with the recession (A) of the main cam gear. The carriage connection gear rotates in the direction of the arrow to perform the Eject operation.

<NOTE>
If the Eject operation is performed without the cassette carriage installed while repairing or making the mechanical phase alignment, the main cam gear will not engage with the carriage connection gear and will not rotate.
To perform the Eject operation with the cassette carriage not installed, it is necessary to rotate the carriage connection gear by hand in the direction of the arrow.

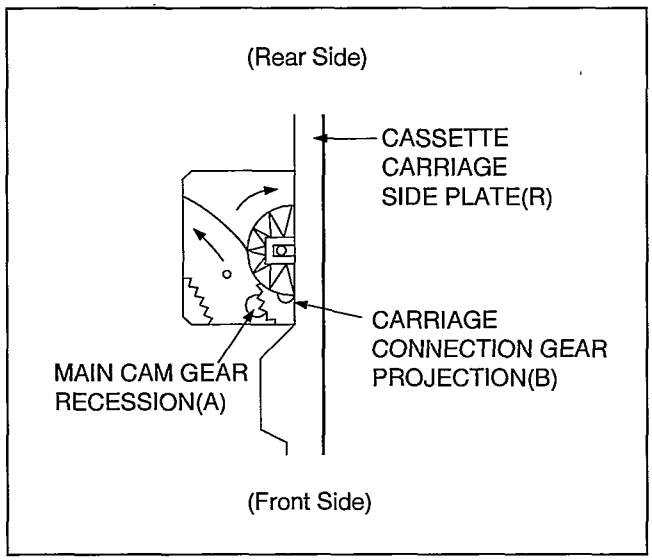


Fig. S9 Top View of Eject Operation

1-1-9. TAKE-UP PHOTO SENSOR OPERATION

Note the following matters for Take-up Photo Sensor Operation.

1) While servicing of the K-Mechanism, the unit will not operate properly if a strong light (ex, Fluorescent light, Spot light) falls on the Take-up Photo Sensor. In this case, cover the Take-up Photo Sensor to prevent the light from falling on it.
2) While servicing of the K-Mechanism with "Power On" and without cassette tape inserted, the Unit does not operate properly.

1-1-10. REMOVAL OF THE CASSETTE TAPE

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to remove the cassette manually. There are 2 methods of removing the cassette.

1. HAND OPERATION

1) Take out the mechanism from MAIN C.B.A.
2) Turn the Worm Gear manually, moving the Loading Post to the unloaded position.
3) Turn the Capstan Rotor Unit clockwise to take up the tape.
4) Turn the Worm Gear again to eject the cassette.

2. BATTERY OPERATION

1) Take out the mechanism from Main C.B.A.
2) Connect the Battery (Manganes-Type R6 (AA) 3pcs./ +4.5V) to the Loading Motor terminals as shown below.
3) After moving the Loading Post to the unloaded position, disconnect the battery to stop the motor.
4) Turn the Capstan Rotor Unit to clockwise to take up the tape.
5) Reconnect the battery to eject the cassette.

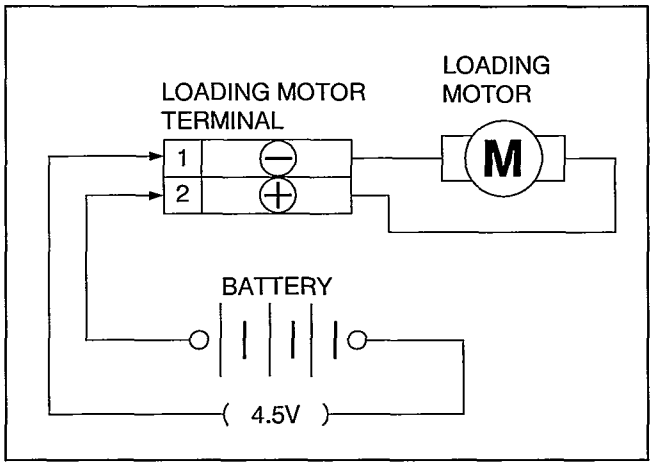


Fig. S10

If the cassette tape can not be removed by the above 2 methods, remove it by the following method.

1) Remove the Top Panel.
2) Remove the Front Panel Unit.
3) Lift up the Pinch Arm after removing spring.
4) Push the P5 Arm and remove the cassette tape from tape transportation (P1, P2, P3 and P5 Posts).
5) Turn the Capstan Rotor Unit to take up the tape.
6) Remove 1 screw from the Side Plate (R) Unit to disconnect the Rack Gear from the Carriage Connection Gear.
7) Take out the cassette tape from the Cassette Compartment.

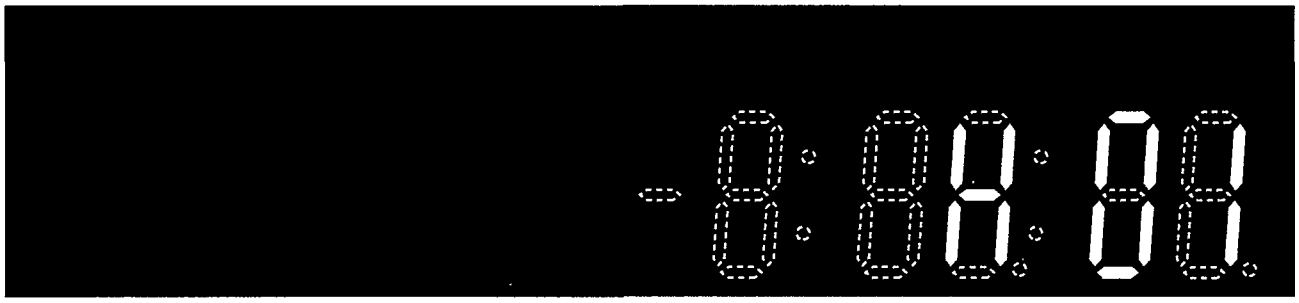
1-2. SELF-TEST INDICATION DISPLAY

This VTR has a self-diagnosis and display function. If the VTR detects trouble during installation or during use, one of the following Fault Indication Codes will automatically appear in the VTR display. Fault Indication codes are displayed in the form of a single English letter followed by two numbers, as for example "H01".

Note:1. The indication "U" is displayed on the FIP while power remains on.

2. Otherwise, the indication "H" or "F" is displayed on the FIP, and the power is automatically turned off. When the power is turned on again, the Fault Indication Code will disappear and the unit will return to normal display mode (either clock or counter).
3. This Fault Indication Code will be stored in the Timer microprocessor even with the AC plug disconnected.
   The two-digit number portion of the stored Fault Indication Code can be redisplayed in the FIP's "second" display position (the last 2 digits on the light) by placing the unit is Service Mode Number 2 when turning on Service Information Display as for example "01" or "02" etc.
   If a second error occurs, only the most recent error will be displayed and stored.
4. To erase the stored Fault Indication Code data, Turn the Shuttle Ring to FF then push the EJECT button for 5 seconds.

<FIP>



INDICATION	CAUSE	REMEDY/CHECK
U 10	Dew formation.	Wait until the indication disappears.
H 01	After cylinder lock is detected, the cylinder does not start rotating again even after tape unloading.	Check the cylinder-motor drive circuit.
H 02	Cassette tape is not wound up during tape unloading except Eject mode.	Check the capstan-motor drive circuit.
F 03	Mechanism locks during mode transition except Eject mode.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment. 3. Check the Mode Switch.
F 04	Mechanism locks during tape unloading.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment.
F 05	Cassette tape is not wound up during tape unloading in Eject mode.	1. Check the capstan-motor drive circuit. 2. Check the Supply/Take-up reel pulse.
F 06	Mechanism locks after tape unloading in Eject mode.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment for Cassette Holder Unit.
F 09	No serial clock transmission between IC6001 and IC7501.	Check the serial clock circuit.

Fig. T1 Self-Test Indication Display

1-3. SERVICE INFORMATION DISPLAY

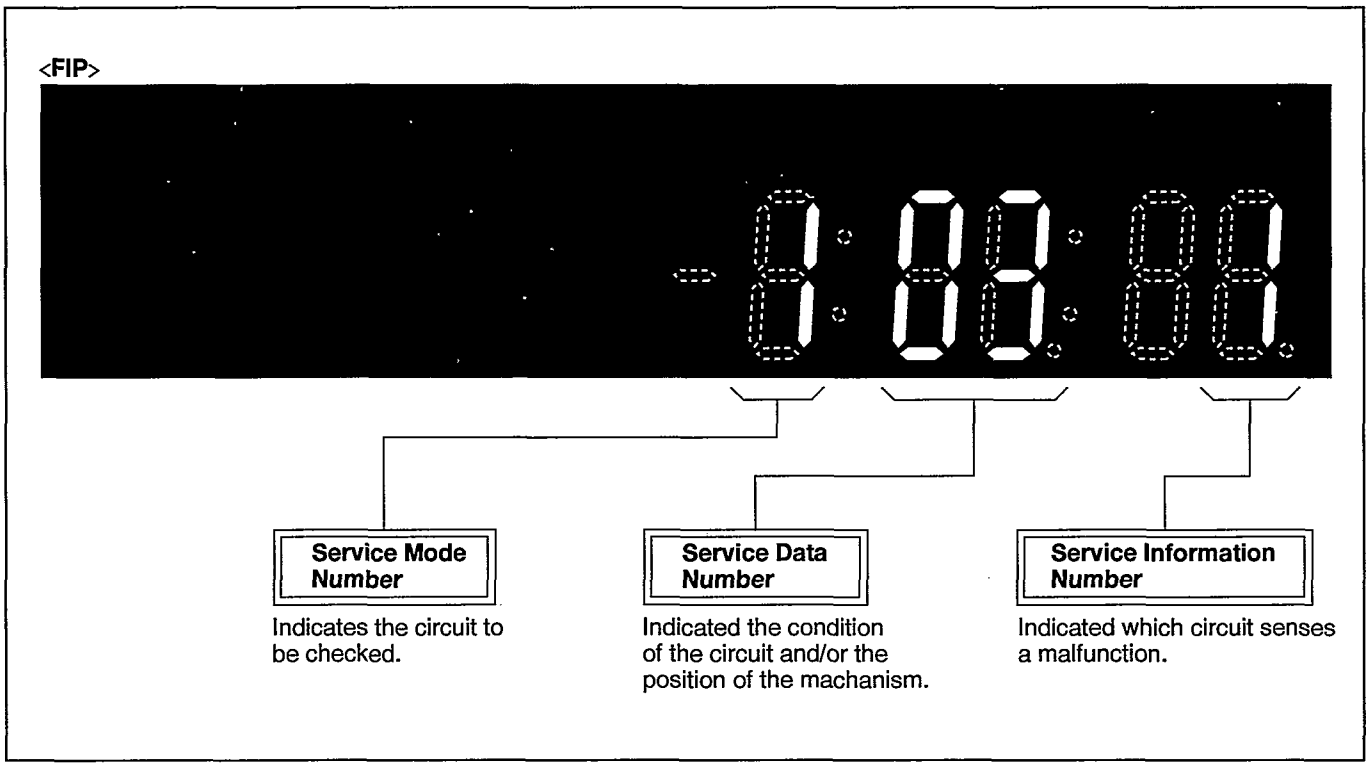

<FIP>
Service Mode Number
Indicates the circuit to be checked.
Service Data Number
Indicated the condition of the circuit and/or the position of the machanism.
Service Information Number
Indicated which circuit senses a malfunction.

Fig. D1 Service Information Display

1-3-1. Purpose of Service Information Display

This information aids trouble shooting by indicating the source of the malfunction. The service mode number & service data number are used by the technician during repair while the service information can be used by the consumer to diagnose malfunctions allowing the technician to provide a more accurate repair cost estimate and reduce repair time.

1-3-2. Turning on Service Information Display

(1) Turn the Shuttle Ring to FF then push the EJECT button to set the Service Mode.

In the Service Information Display, there are four digits divided into 3 functions.
The first digit indicates which of the 7 service modes that the unit is currently in.

MODE 1 : Checks tape protection circuit
MODE 2 : Checks tape transport mechanism
MODE 3 : Checks mode switching operation
MODE 4 : Checks control buttons
MODE 5 : Checks capstan motor
MODE 6 : Checks cylinder motor
MODE 7 : Checks loading/unloading operation

The second and third digits are service data which indicate the condition of the circuit or mechanism being checked.

The forth digit is the service Information display. It is to be used by the consumer to help determine the source of a malfunction. The service information display operates independently of the service modes and stores the fault indication in memory for as long as AC power is not supplied.

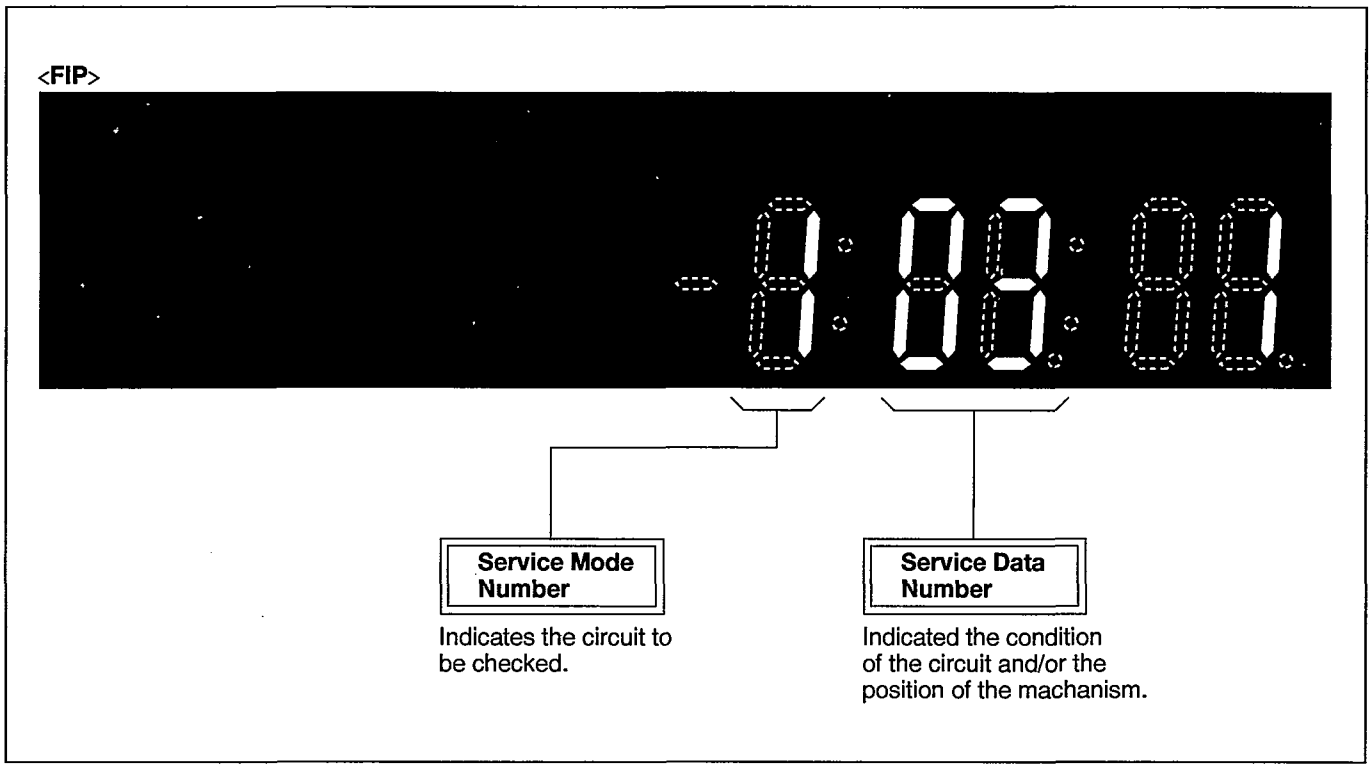

<FIP>
Service Mode Number
Indicates the circuit to be checked.
Service Data Number
Indicated the condition of the circuit and/or the position of the machanism.

Fig. D2 Service Mode Number and Service Data Number on S.I.D.

(1) Turn on Service Information Display.
(2) To change Service Modes turn the Shuttle Ring to FF then push the EJECT button.
(3) Mode 1 : Checks that the Sensor LED, Supply & Take-up Sensor circuits check the circuits by blocking the light from the Sensor LED to either or both Supply & Take-up Sensors.
When the light is blocked to both sensors, "00" should be indicated on the service data number.
When the light is blocked to the supply sensor, "01" should be indicated.
(4) Mode 2 : Checks the mode switch circuit while indicating mechanism position.
Service Data Numbers indicate the position of the mode switch and there by the mechanism position.
(5) Mode 3 : Checks that mode switch circuit operations have been completed.
Service Data Number should indicate "00" after each mechanism operation is completed.
(6) Mode 4 : Checks the operation circuit.
Indicates if IC6001 receives the operating commands from the mode buttons and/or remote controller.
(7) Mode 5 : Checks the capstan motor circuit.
Indicates if the IC6001 has received the command to rotate the capstan motor.
(8) Mode 6 : Checks the cylinder motor circuit.
IC6001 has received the command to rotate the cylinder motor.
(9) Mode 7 : Checks the Loading/Unloading Operation.
The Loading Motor rotates for loading operation when the "PLAY" button is pressed.
The Loading Motor rotates for unloading operation when the "STOP" button is pressed. This mode can be displayed indefinitely until the OPERATE button is pressed.

<NOTE>
Refer to Fig. D5 for details of Service Data Numbers.

1-3-4. Service Information Number

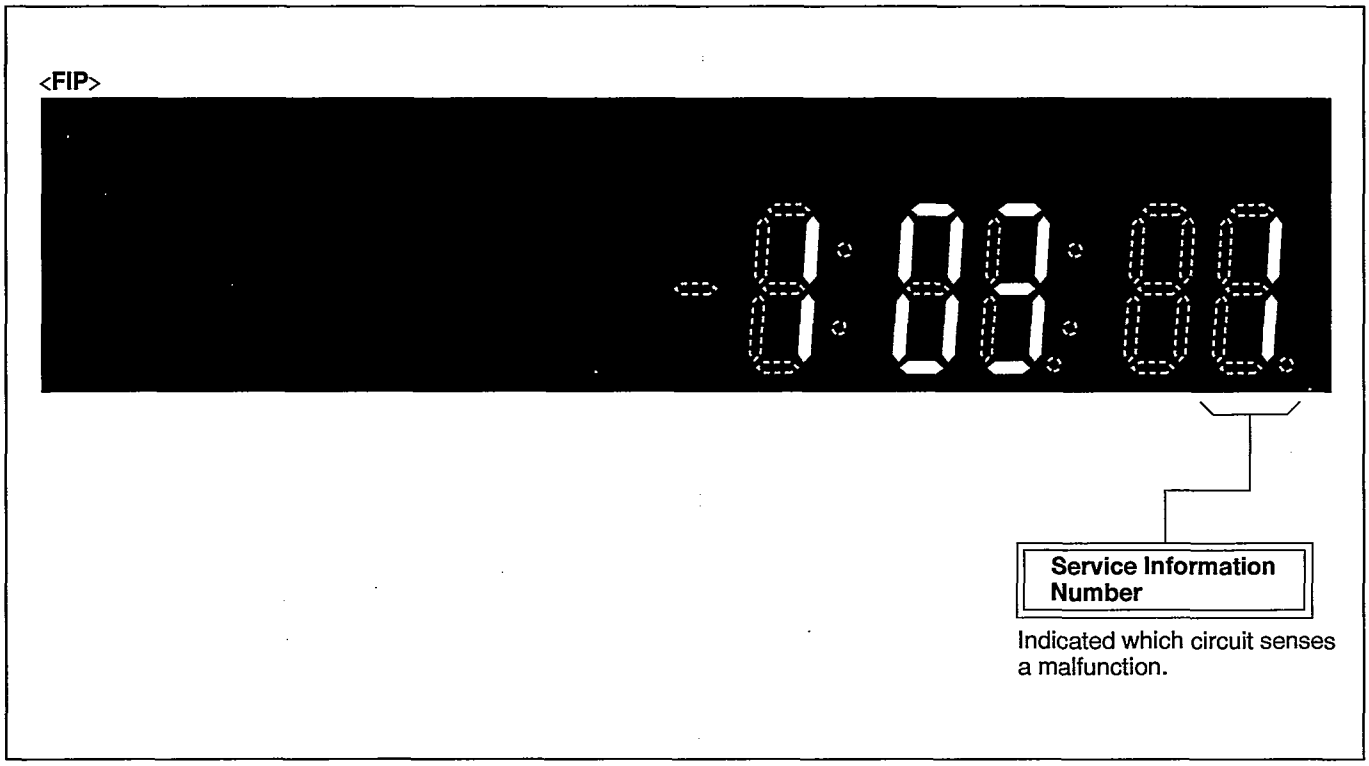


Fig. D3 Service Information Number on S.I.D.

Refer to Fig. D4 for details of Service Information Number.

Note:
The Service Information Number display is independent of the service mode display.
The Service Information Number will be stored as long as AC power is not supplied. (If can be displayed in the Service Mode 2.)
If a second error occurs, only the most recent error will be displayed.

Service Information Number	Malfunction
00	Normal (No problem)
01	Cylinder stop
02	Tape reel stop
03	Stop at position other than 4 or 6
04	Stop during unloading
05	Faulty capstan rotation
06	Stop during Cassette-In/Eject operation

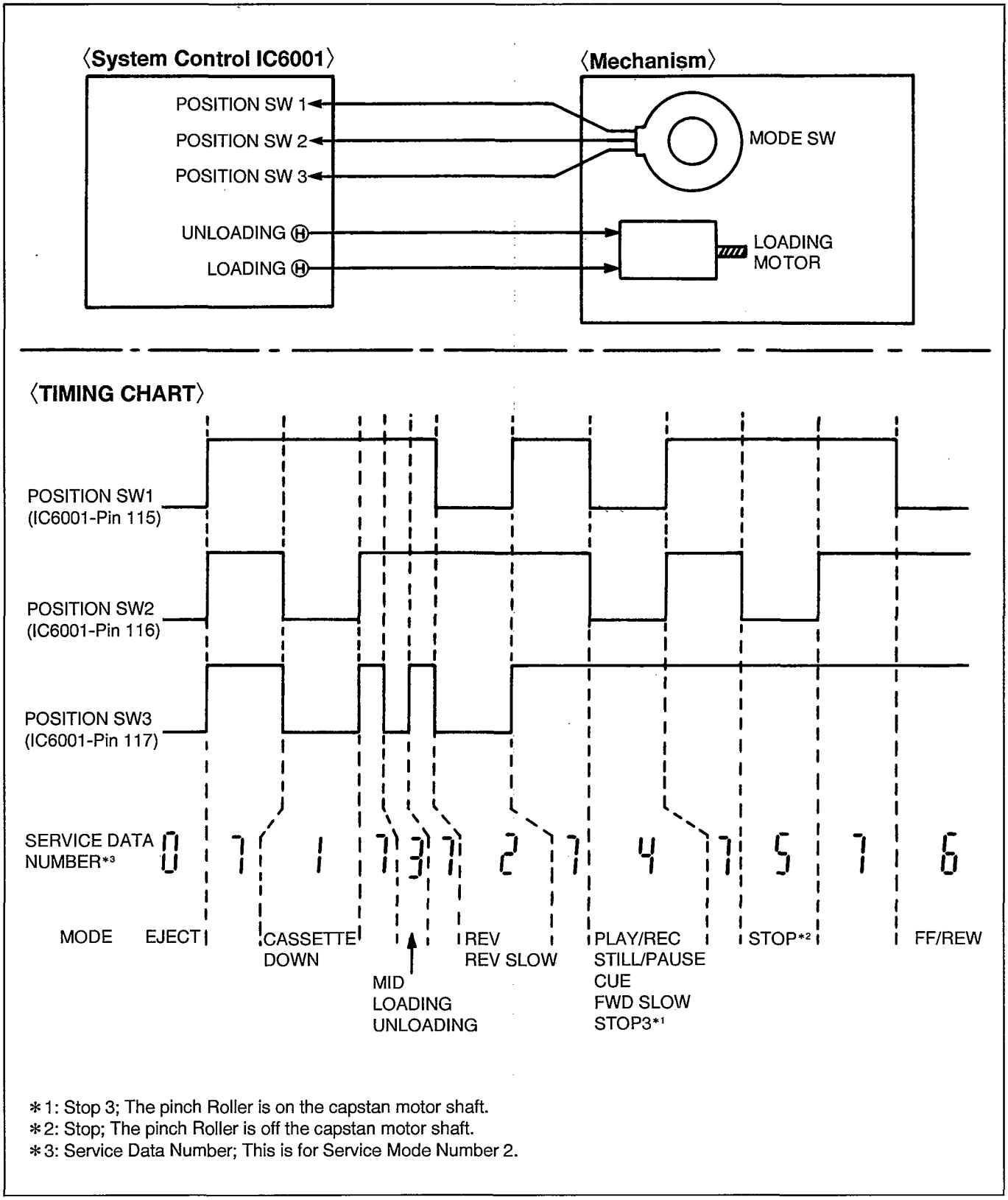
Fig. D4 Detail Service Information Numbers

Service mode Number	Note for checking Service Data Numbers	Service Data Numbers	Indication	Remarks
1	———	00	No light detected at either sensor.	Tape not required.
		01	Tape Beginning. Light to Supply Photo Sensor is blocked.	
		02	Tape End. Light to Take-up Photo Sensor is blocked.	
		03	Light detected at both sensors.	
2	———	00	EJECT	Tape Required. *1: STOP3; The Pinch Roller is on the capstan motor shaft. *2: STOP; The Pinch Roller is off the capstan motor shaft. Refer to Fig. D7 to Check mechanism Position and timing.
		01	Cassette-down	
		02	REV, REV SLOW	
		03	Loading/Unloading	
		04	PLAY/REC, STILL/PAUSE, CUE, FWD SLOW, STOP3 *1	
		05	STOP *2	
		06	FF/REW	
		07	Intermediate position	
3	Disregard service data displayed until mechanism operation is completed. Then the display should indicate "00".	00	Any display other than "00" indicates a fault in the mode switch circuit or system.	Tape Required.
4	Display only when the operating button is pressed.	Refer to Fig. D6		Tape not required.
5	Left digit only, disregard Right digit display.	8 1 (Left Digit, Right Digit)	8, 9, u, A, −, n, L, and no display indicate that the Capstan motor "PLAY" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.
	Right digit only, disregard left digit display.	8 7 (Left Digit, Right Digit)	1, 2, 3, 4, 5, 6, 7, indicate that the Capstan motor "CUE, FF, Forward Slow" commands received by IC6001.	
	Right digit only, disregard left digit display.	8 (Left Digit, Right Digit)	8, 9, u, A, −, n, L, and no display indicate that the Capstan motor "Reverse, Rew, Reverse Slow" commands received by IC6001.	
6	Left digit only, disregard Right digit display.	1 0 (Left Digit, Right Digit)	1, 3, 5, 7, 9, A, n and no display indicate that the cylinder motor "ON" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.

Fig. D5 Service Data Display and Indication

1-3-5. Timing Chart from Mode SW to System control IC6001

System control IC6001 senses the mechanism position through the Mode SW.
Fig. D6 shows the timing for Service Mode Number 2.



*1: Stop 3; The pinch Roller is on the capstan motor shaft.
*2: Stop; The pinch Roller is off the capstan motor shaft.
*3: Service Data Number; This is for Service Mode Number 2.

Fig. D6 Timing Chart of Mode SW

1-3-6. Input/Output Chart for IC6001

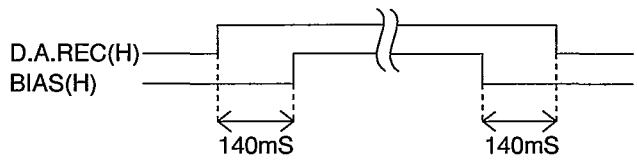
Pin Number	Input/Output	Port Name	Function
1	O	TV (H) / VTR (L)	TV/VTR switch output
2	O	FM MUTE(H)	This port is high during special playback (CUE, REV, SLOW, STILL) mode.
3	O	AUDIO MUTE (H)	This port is high during special playback (CUE, REV, SLOW, STILL) mode.
4	O	EDIT MODE (H)	This port is high during edit mode.
5	O	VIDEO EE (L)	This port is low during EE mode.
6	O	SLOW/STILL (L)	This port is low during SLOW and STILL modes.
7	O	CHG AT (H)	This port is high while the auto-tracking is performed in variable speed playback mode.
8	O	VOLTAGE CHANGE (H)	This port is high while the loading motor torque is increased in FF and REW modes.
9	O	LM LIMIT (H)	Loading motor torque limitter output
10	O	FF/REW (L)	This port is low during FF and REW modes.
11	O	UNLOADING (H)	This port is high while the mechanism is unloaded.
12	O	LOADING (H)	This port is high while the mechanism is loaded.
13	O	D.A. REC (H)	Normal audio recording control 
14	O	BIAS (H)	
15	O	MIX (H)	Normal and HIFI audio mix control MIX ON : HIGH MIX OFF : LOW
16	I	SHORT CHECK (H)	DC voltage (BIAS (H)) detection • When the low voltage is detected in recording mode, the VCR is turned off. • When the high voltage is detected in except recording mode, the VCR is turned off.
17	I	S-VHS PB (H)	This port is high during S-VHS playback.
18	O	PB AI2 (H)	AI playback control
19	O	PB AI1 (H)	AI playback control
20	I	S-TAB (L)	This port is low while the cassette tape with safety tab is inserted.

Fig. MP1

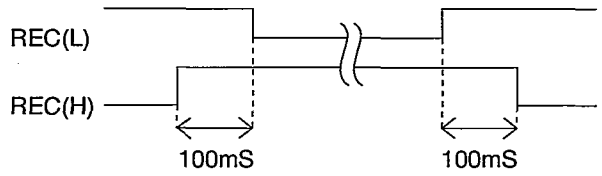
<table>
<tr><th>Pin Number</th><th>Input/Output</th><th>Port Name</th><th>Function</th></tr>
<tr><td>21</td><td>I</td><td>ABS NORM IN</td><td>HIFI audio mode detection
• When the low voltage is detected, the audio output is compulsory normal audio mode.</td></tr>
<tr><td>22</td><td>I</td><td>L CH IN</td><td rowspan="2">HIFI audio mode detection<table><tr><th></th><th>L CH IN</th><th>R CH IN</th></tr><tr><td>L CH SEL</td><td>L</td><td>H</td></tr><tr><td>R CH SEL</td><td>H</td><td>L</td></tr><tr><td>L+R SEL</td><td>L</td><td>L</td></tr><tr><td>NORMAL SEL</td><td>H</td><td>H</td></tr></table></td></tr>
<tr><td>23</td><td>I</td><td>R CH IN</td></tr>
<tr><td>24</td><td>I</td><td>REC AI (L)</td><td>AI mode selection
AI PB ONLY : HIGH
AI PB AND REC : LOW</td></tr>
<tr><td>25</td><td>I</td><td>RESET (L)</td><td>This port is low while IC6001 is reset.</td></tr>
<tr><td>26</td><td>I</td><td>MODE SEL</td><td>Active mode selection for microprocessor</td></tr>
<tr><td>27</td><td>I</td><td>NC</td><td>Not used (Low setting)</td></tr>
<tr><td>28</td><td>I</td><td>PG AUTO (H)</td><td>PG shifter adjustment selection
AUTO ADJUST : HIGH
MANUAL ADJUST : LOW</td></tr>
<tr><td>29</td><td>O</td><td>CAPSTAN RVS (H)</td><td>Capstan motor direction selection
REVERSE : HIGH
FORWARD : LOW</td></tr>
<tr><td>30</td><td>O</td><td>REC (L)</td><td rowspan="2">DC voltage control for recording mode. 
</td></tr>
<tr><td>31</td><td>O</td><td>REC (H)</td></tr>
<tr><td>32</td><td>O</td><td>A. DUB (H)</td><td>This port is high during audio dubbing mode.</td></tr>
<tr><td>33</td><td>O</td><td>INSERT (L)</td><td>This port is low during insert mode.</td></tr>
<tr><td>34</td><td>O</td><td>SYSTEM 3</td><td>Refer to Fig. MP. 6</td></tr>
<tr><td>35</td><td>O</td><td>SYSTEM 4</td><td>Refer to Fig. MP. 6</td></tr>
<tr><td>36</td><td>O</td><td>SYSTEM 5</td><td>Refer to Fig. MP. 6</td></tr>
<tr><td>37</td><td>I</td><td>DIGITAL 5V</td><td>VDD</td></tr>
<tr><td>38</td><td>O</td><td>12MHz OUT</td><td>Oscillator output</td></tr>
<tr><td>39</td><td>I</td><td>12MHz IN</td><td>Oscillator input</td></tr>
<tr><td>40</td><td>O</td><td>32KHz OUT</td><td>Oscillator output</td></tr>
<tr><td>41</td><td>I</td><td>32KHz IN</td><td>Oscillator input</td></tr>
</table>

Fig. MP2

Pin Number	Input/Output	Port Name	Function
42	I	DIGITAL GND	GND
43	O	FULL ERASE (H)	Full erase on/off control ON : HIGH OFF : LOW
44	O	D. REC (H)	Video signal recording on/off control
45	O	D. FM. REC (H)	HIFI audio signal recording on/off control
46	O	FLYING ERASE (H)	Flying erase head on/off control ON : HIGH OFF : LOW
47	O	REC CUR 1	AI REC current switching signal output
48	O	REC CUR 2	AI REC current switching signal output
49	O	REC CUR 3	AI REC current switching signal output
50	O	A. H. SW	HIFI audio head switching signal output
51	O	S. DATA OUT	Serial data output
52	I	S. DATA IN	Serial data input
53	O	S. CLOCK	Serial clock output
54	O	5P S. DATA OUT	EDIT 5P serial data output
55	I	5P S. DATA IN	EDIT 5P serial data input
56	O	5P S. CLOCK	EDIT 5P serial clock output
57	O	CAP R/S/F	Capstan rotation direction control REVERSE : HIGH STOP : MIDDLE FOWARD : LOW
58	O	CURRENT LIMIT	Capstan motor current limitter output
59	O	ENV2	AI PB control signal output
60	O	PIC VR OUT	This port supplies the voltage which depends on picture VR setting.
61	O	ART V/H/N	This port supplies artificial vertical sync signal to stabilize the picture in special playback mode.

Fig. MP3

<table>
<tr><th>Pin Number</th><th>Input/Output</th><th>Port Name</th><th>Function</th></tr>
<tr><td>62</td><td>O</td><td>VIDEO H. SW</td><td>Video head switching signal output</td></tr>
<tr><td>63</td><td>O</td><td>ROTARY SW</td><td>Rotary switching signal output</td></tr>
<tr><td>64</td><td>O</td><td>H. AMP. SW</td><td>Head amp switching signal output</td></tr>
<tr><td>65</td><td>I</td><td>ENVE SELECT</td><td>This port receives the playback envelope signal level to select the video head in special playback mode.</td></tr>
<tr><td>94</td><td>I</td><td>T- PHOTO</td><td>This port receives the signal when take-up photo sensor detects the tape beginning.</td></tr>
<tr><td>95</td><td>I</td><td>S-PHOTO</td><td>This port receives the signal when supply photo sensor detects the tape end.</td></tr>
<tr><td>96</td><td>I</td><td>NORMAL/
SERVICE/TEST</td><td>NORMAL/SERVICE/TEST mode selection
<table><tr><th>INPUT VOLTAGE</th><th>MODE</th></tr><tr><td>MORE THAN 4.0V</td><td>NORMAL</td></tr><tr><td>2.5V~4.0V</td><td>SERVICE</td></tr><tr><td>LESS THAN 2.5V</td><td>TEST</td></tr></table></td></tr>
<tr><td>97</td><td>I</td><td>SYSTEM
SELECT</td><td>System mode selection for auto setup
<table><tr><th>INPUT VOLTAGE</th><th>MODE</th></tr><tr><td>MORE THAN 3.0V</td><td>MODE 4</td></tr><tr><td>2.0V~3.0V</td><td>MODE 2</td></tr><tr><td>LESS THAN 2.0V</td><td>MODE 1</td></tr></table></td></tr>
<tr><td>98</td><td>I</td><td>STEREO/BIL</td><td>Audio mode detection for display on the OSD
<table><tr><th>INPUT VOLTAGE</th><th>DISPLAY</th></tr><tr><td>MORE THAN 4.2V</td><td>NO DISPLAY</td></tr><tr><td>3.0V~4.2V</td><td>MONO 1</td></tr><tr><td>2.0V~3.0V</td><td>BILINGUAL</td></tr><tr><td>0.8V~2.0V</td><td>MONO 1+2</td></tr><tr><td>LESS THAN 0.8V</td><td>STEREO</td></tr></table></td></tr>
<tr><td>99</td><td>I</td><td>DEW SNS</td><td>This port is more than 1.36V during detecting the dew formation.</td></tr>
<tr><td>100</td><td>I</td><td>ATIC SEL</td><td>Head amp IC setting for playback envelope detection
<table><tr><th>INPUT VOLTAGE</th><th>IC</th></tr><tr><td>MORE THAN 3.0V</td><td>TEA5705</td></tr><tr><td>2.0V~3.0V</td><td>AN3336</td></tr><tr><td>LESS THAN 2.0V</td><td>AN3360</td></tr></table></td></tr>
<tr><td>101</td><td>I</td><td>PIC VR IN</td><td>This port receives the voltage which depends on picture VR setting.</td></tr>
<tr><td>102</td><td>I</td><td>CHROMA IN</td><td>AI PB Chrominance level adjustment input</td></tr>
<tr><td>103</td><td>I</td><td>SLTR MM</td><td>Slowtracking adjustment input</td></tr>
<tr><td>104</td><td>I</td><td>AV MODE SEL</td><td>TV/VTR switch setting
<table><tr><th>INPUT VOLTAGE</th><th>SWITCH</th></tr><tr><td>MORE THAN 3.0V</td><td>TV/VTR</td></tr><tr><td>2.0V~3.0V</td><td>NO SW</td></tr><tr><td>LESS THAN 2.0V</td><td>AV LINK</td></tr></table></td></tr>
</table>

Fig. MP4

<table>
<tr><th>Pin Number</th><th>Input/Output</th><th>Port Name</th><th>Function</th></tr>
<tr><td>105</td><td>I</td><td>TRACKING ENVE</td><td>Playback envelope input for tracking adjustment</td></tr>
<tr><td>106</td><td>I/O</td><td>EDIT TRIG</td><td>Trigger signal in/output for synchronized editing</td></tr>
<tr><td>107</td><td>O</td><td>2H (H)</td><td>This port supplies the high signal in SP mode.</td></tr>
<tr><td>108</td><td>O</td><td>T SNS LED (L)</td><td>Sensor LED drive signal output
• When this port supplies the low signal, the sensor LED is lit.</td></tr>
<tr><td>109</td><td>I/O</td><td>PREROLL</td><td>Preroll signal in/output for synchronized editing.</td></tr>
<tr><td>110</td><td>O</td><td>SYSTEM 2</td><td>Refer to Fig. MP. 6</td></tr>
<tr><td>111</td><td>O</td><td>SYSTEM 1</td><td>Refer to Fig. MP. 6</td></tr>
<tr><td>112</td><td>I/O</td><td>HIFI/MIX/NORM</td><td rowspan="2">Audio output mode control
<table><tr><th></th><th colspan="4">MODE</th></tr><tr><th></th><th>STEREO</th><th>L CH</th><th>R CH</th><th>NORMAL</th></tr><tr><td>HIFI/MIX/NORM</td><td>H</td><td>H</td><td>H</td><td>L</td></tr><tr><td>L CH/R CH/STEREO</td><td>L</td><td>H</td><td>Z</td><td>L</td></tr></table>Z: HIGH IMPEDANCE</td></tr>
<tr><td>113</td><td>O</td><td>L CH/R CH/
STEREO</td></tr>
<tr><td>114</td><td>I</td><td>DIGITAL 5V</td><td>VDD</td></tr>
<tr><td>115</td><td>I</td><td>POSITION SW1</td><td rowspan="3"><table><tr><th>P. SW 3</th><th>P. SW 2</th><th>P. SW 1</th><th>Position (Mode) Name</th></tr><tr><td>O</td><td>O</td><td>O</td><td>EJECT</td></tr><tr><td>O</td><td>O</td><td>I</td><td>CASSETTE DOWN</td></tr><tr><td>O</td><td>I</td><td>O</td><td>REV, REV SLOW</td></tr><tr><td>O</td><td>I</td><td>I</td><td>MID (LOADING/UNLOADING)</td></tr><tr><td>I</td><td>O</td><td>O</td><td>PLAY/REC, STILL/PAUSE, CUE, FWD SLOW STOP3 *1</td></tr><tr><td>I</td><td>O</td><td>I</td><td>STOP</td></tr><tr><td>I</td><td>I</td><td>O</td><td>FF/REW</td></tr><tr><td>I</td><td>I</td><td>I</td><td>INTERMEDIATE</td></tr></table>(*1) The Pinch Roller is on the capstan motor shaft.</td></tr>
<tr><td>116</td><td>I</td><td>POSITION SW2</td></tr>
<tr><td>117</td><td>I</td><td>POSITION SW3</td></tr>
<tr><td>118</td><td>O</td><td>AUDIO MODE
SELECT</td><td>Audio mode switching signal output</td></tr>
<tr><td>119</td><td>I</td><td>GND</td><td>GND</td></tr>
<tr><td>120</td><td>I</td><td>REC WIDE (H)</td><td>This port is high during wide recording mode.</td></tr>
<tr><td>121</td><td>O</td><td>WIDE (H)</td><td>This port is high during playback the tape recorded with wide mode.</td></tr>
<tr><td>122</td><td>O</td><td>AI MES (H)</td><td>This port is high when measuring the head and tape condition to determine the optimum recording current before starting the AI recording.</td></tr>
<tr><td>123</td><td>O</td><td>POWER OFF (H)</td><td>Power on/off control</td></tr>
<tr><td>124</td><td>O</td><td>TRICK (L)</td><td>This port is low during special playback (CUE, REV, SLOW, STILL) mode.</td></tr>
</table>

Fig. MP5

	MODE 1	MODE 2	MODE 3	MODE 4
PIN 111 (SYSTEM 1)	H: MESECAM L : PAL Z : AUTO	H: MESECAM L : PAL	H: PAL L : NTSC Z : AUTO	H: MESECAM L : PAL Z : AUTO
PIN 110 (SYSTEM 2)	H: EXCEPT NTSC L : NTSC-M	H: SECAM L : PAL Z : AUTO	——	H: EXCEPT NTSC L : NTSC-M
PIN 34 (SYSTEM 3)	H: NORMAL L : DBS/CANAL	H: NORMAL L : DBS/CANAL	——	H: NORMAL L : DBS/CANAL
PIN 35 (SYSTEM 4)	H: PAL- I L : B/G/D/K	H: SECAM L : PAL	——	H: PAL-I L : B/G/D/K
PIN 36 (SYSTEM 5)	H: PAL L : NTSC	H: PAL L : NTSC	H: 50Hz L : 60Hz	H: PAL L : NTSC

Z: HIGH IMPEDANCE

Fig. MP6

Note: 1. The mode is decided depend on SYSTEM SELECT PORT (PIN 97).

1-3-7. AI (ARTIFICIAL INTELLIGENCE) FUNCTION

The recording and playback are adjusted to achieve optimum picture quality from tapes with varying charactristics.

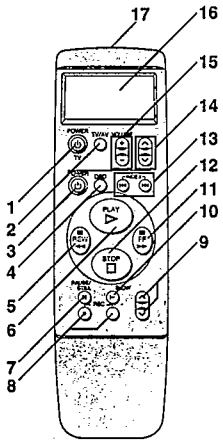
(1) Detail explanation
<Playback mode>
The picture quality is varying from the different tapes as follows:

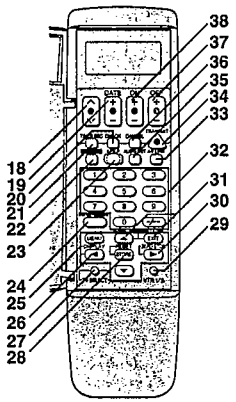
1) If the output level is low, from worn or rental cassette tapes, a soft picture is obtained by the RF equlizer and picture control on the Lumi./Chro. Pack C.B.A.
2) If the output level is medium, from normal tapes, a sharp picture is obtained from the emphasis and picture control on the Lumi./Chro. Pack C.B.A.
3) If the output level is high, from HG/S tapes, a sharp and detailed picture is obtained from the RF equlizer, emphasis picture control and noise canceller on the Lumi./Chro. Pack C.B.A.

<Recording mode>
The optimum recording level is used for all head conditions and for all types of tapes.

1) The luminance S/N is boosted 2dB.
2) Recording head wear compensation.
3) The optimum recording current is achieved in 1.5 seconds.

Infra-red Remote Controller





1 POWER (TV)
To switch the TV from on to standby mode or vice versa. In standby mode, the TV is still connected to the mains.
- With some TV models, it may only be possible to switch the TV to standby mode using this button. In this case, use **TV/AV** or ∨ ∧ **(TV)** to switch the TV on.

2 TV/AV
To select the TV input.

3 POWER
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

4 OSD
For the On Screen Display Function.

5 REW (REWIND)
In the stop mode: To rewind the tape.
In the playback mode: To search backward.
In the rewind mode: To obtain high speed picture.
"◁◁" is lit.

6 PLAY
To start playback. "▷" is lit.
For the repeat playback function.

7 PAUSE/STILL
During playback: Still picture.
During recording: To interrupt recording.

8 REC
To start a recording.
- Press both buttons simultaneously.

9 ∨ ∧ (VTR)
To select the required programme position (TV station).

10 SLOW
For the slow motion playback function. "▯▷" is lit.

11 FF (FAST FORWARD)
In the stop mode: To fast forward the tape.
In the playback mode: To search forward.
In the fast forward mode: To obtain high speed picture.
"▷▷" is lit.

12 STOP
To stop any playback or recording.

13 INDEX
For the Index search function.

14 ∨ ∧ (TV)
To select the required programme position (TV station) of the TV.

15 VOLUME
To adjust the volume of the TV.

16 Display

17 Infra-red Transmitter
The programming data are transmitted from here to the VTR.

18 ∨ ∧
To programme a timer recording.

19 DATE
To programme a timer recording.

20 CHECK
To check timer programmes.

21 TIMER REC
To turn the timer recording function on and off.
◳ is lit or not lit.
Once operating timer recording function, the normal VTR operation is not possible unless this button is set to off.

22 SHOWVIEW
For the ShowView programming.

23 SP/LP
To select the tape speed desired for recording.
SP gives the best picture quality.
LP gives the longest recording time.

24 INPUT SELECT
To select the A1, A2 or A3 external recording source.

25 OSD Operation Buttons
MENU: To make On Screen Display **Main Menu** appear on the TV screen.
▲ ▼ ◀ ▶/STORE:
To make selections from On Screen Display.
EXIT: To make On Screen Display disappear on the TV screen.

26 DISPLAY
To change the indication on the VTR Display or On Screen Display.

→Clock→Counter→Remaining Tape Time→

27 TV SELECT
To set the remote controller for operation of the TV.

28 RESET
To reset the tape counter (elapsed time) to "0:00.00".
- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

29 VTR 1/2
VTR1: Set to this position on both the VTR and remote controller for normal use with one VTR.
VTR2: Set to this position when using two Panasonic VTRs.

30 ZERO STOP
For the zero stop function.

31 TRACKING/V-LOCK
For manual tracking adjustment
The + and – buttons are used to adjust the tracking when, for example, noise bars on the picture are better removed manually than by the automatic digital tracking control. After making a manual adjustment, press both buttons together to return to automatic digital tracking control.

For slow tracking adjustment
When noise bars appear during Still or Slow playback, switch over to slow playback and adjust with the + or – Button to reduce the noise bars.

For vertical locking adjustment
Use the + and – buttons to minimize any vertical jitter during still-picture playback.

32 Number Buttons
- To select the programme positions (1–99).

9: (9)
19: (-/--) → (1) → (9)

- To programme a ShowView number.

33 AV LINK
To select the VTR mode or TV mode for AV LINK.

34 TRANSMIT
To transmit the data that has been set on the remote controller to the VTR.

35 AUDIO OUT
To select the desired sound mode.
At the every push of this button, the audio output mode changes as follows.

→Stereo→Left→Right→Normal audio track→

The Left (L) and Right (R) Indicators shown which sound mode is selected in the following way.

Stereo: Both the L and R Indicators appear.
Left: The L Indicator appears.
Right: The R Indicator appears.
Normal: Both the L and R Indicators don't appear.

36 CANCEL
To cancel the settings made for a timer recording.

37 OFF
To programme a timer recording.

38 ON
To programme a timer recording.

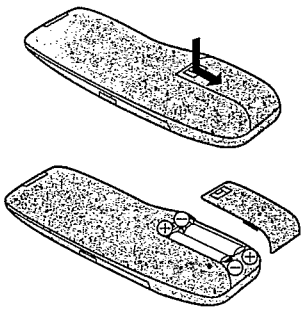
Power Source for the Remote Controller

The remote controller is powered by 2 "AA", "UM3" or "R6" size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

Precautions for Battery Replacement

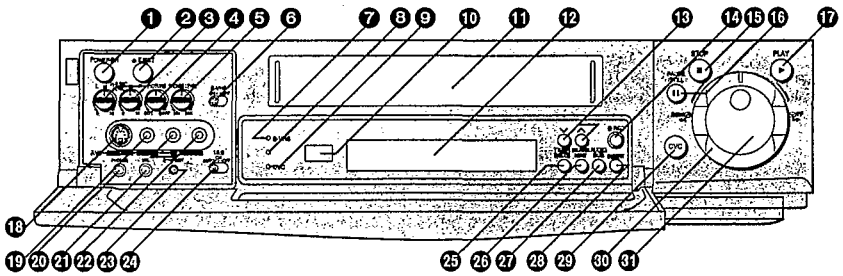
- Load the new batteries with their polarity (⊕ and ⊖) aligned correctly.
- Do not apply heat to the batteries, or an internal short-circuit may occur.
- If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.

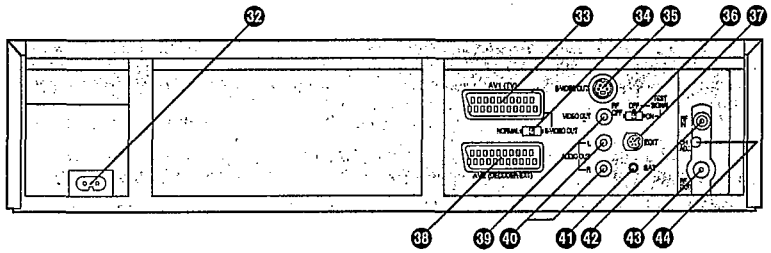
Installing the Batteries



Controls and Connection Sockets

This gives a detailed explanation of the function of each button, switch and connection socket.





❶ POWER ⏻/I
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

❷ EJECT
To eject a video cassette.

❸ HI-FI REC LEVEL
To adjust the recording level to peak at +4 dB on the recording level indicator.

❹ PICTURE
To make picture sharper (SHARP) or softer (SOFT).

❺ PHONES LEVEL
For adjusting the volume level of connected stereo headphones.

❻ S-VHS
When recording on an S-VHS cassette tape, select the desired recording format with this switch.
ON: The recording will be made in the S-VHS format.
- The S-VHS indicator lights up.

OFF: The recording will be made in the VHS format.
- The S-VHS indicator does not light up.
(It is possible to make a recording on an S-VHS cassette tape in the VHS format, for example, in order to play back the tape on another VHS VTR.)

- When using VHS cassettes, the recording is made in the VHS format irrespective of the position to which this switch is set.
- Set this switch to "OFF" to play an S-VHS cassette tape recorded in the VHS format.
- When a tape which was recorded in the S-VHS format is played back on a conventional VHS VTR, it is not possible to obtain playback picture.

❼ S-VHS Indicator
Lights up when the S-VHS switch is set to ON.

❽ Standby Indicator
This indicator is lit when the VTR is turned off or the VTR is timer recording standby mode.

❾ CVC Indicator
When the CVC function is on, this indicator is lit.

❿ Infra-red Remote Control Receiver Window

⓫ Cassette Compartment
Insert a video cassette here.

⓬ Display

⓭ ∨ ∧
To select the required programme position (TV station).

⓮ REC
To start a recording.

⓯ STOP
To stop any playback or recording.

⓰ PAUSE/STILL
In the stop mode: Still picture (Jog/Shuttle mode).
During playback: Still picture (Jog/Shuttle mode).
During recording: To interrupt recording.

⓱ PLAY
To start playback. "▷" is lit.
For the repeat playback function.

⓲ S-VIDEO IN (AV3)
To connect the S-Video cable to a movie camera or to another VTR that has a S-Video output socket.
- If an S-Video cable is connected, other video input is automatically switched off.

⓳ VIDEO IN (AV3)
To connect the video cable to a movie camera or to another VTR.

⓴ PHONES
To connect stereo headphones.

㉑ MIC
To connect a microphone for recording. Once connected, this socket has priority.

㉒ AUDIO IN (AV3)
To connect the audio cable to a movie camera or to another VTR.

㉓ SYNC. EDIT
To connect a movie camera or another VTR equipped with synchronized editing capability.
To connect a movie camera or another VTR equipped with LANC socket for One-Touch-Editing.

㉔ 16:9
AUTO: For automatically identifying the pictures as 16:9 pictures or 4:3 pictures during recording and playback and showing them on the wide TV screen.
- Normally set at this position.

ON: For recording and playback in such a way that the pictures expanded to 16:9 are *shown on the wide TV screen at all time.*

OFF: For recording and playback in such a way that 4:3 pictures are shown on the wide or 4:3 TV screen at all times.

㉕ TIMER REC
To turn the timer recording function on and off.
⏲ is lit or not lit.
Once operating timer recording function, the normal VTR operation is not possible unless this button is set to off.

㉖ COUNTER RESET
To reset the tape counter (elapsed time) to "0:00.00".
- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

㉗ AUDIO DUB
To set up the VTR for audio dubbing.
A DUB is appeared on screen display.

㉘ INSERT
To set up the VTR for insert editing.
INSERT is appeared on screen display.

㉙ CVC (Crystal View Control)
ON: Using the CVC function, playback and recording are performed in the state which achieves optimum picture quality in light of characteristics of a tape.
- The CVC indicator is lit.
- This control should normally be left in the ON position.

OFF: Turn off the CVC function.
- The CVC indicator is not lit.

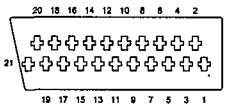
㉚ Shuttle Ring
In the stop mode: To rewind or fast forward the tape.
In the playback mode:
To search picture backward or forward.
In the still playback mode:
To adjust playback speed backward or forward.
In the rewind or fast forward mode:
To obtain high speed picture.

㉛ Jog Dial
To locate any desired frame with utmost precision.

Connections

㉜ AC IN~
To connect to the main power supply.

㉝ AV1 (TV)
This 21-pin scart terminal carries input and output signals for both picture and sound. TV sets equipped with a similar socket can be connected here.
This is also called Scart
Peritel
Euro Connector
Euro AV



	NORMAL (AV1/AV2)	S-VIDEO (AV1)
1	AUDIO OUTPUT CH2 (R)	AUDIO OUTPUT CH2 (R)
2	AUDIO INPUT CH2 (R)	AUDIO INPUT CH2 (R)
3	AUDIO OUTPUT CH1 (L)	AUDIO OUTPUT CH1 (L)
4	AUDIO GND	AUDIO GND
5	BLUE GND	No connection
6	AUDIO INPUT CH1 (L)	AUDIO INPUT CH1 (L)
7	BLUE	No connection
8	SWITCHING VOLTAGE	SWITCHING VOLTAGE
9	GREEN GND	No connection
10	No connection	No connection
11	GREEN	No connection
12	No connection	No connection
13	RED GND	No connection
14	BLANKING GND	No connection
15	RED	C OUT
16	BLANKING	No connection
17	VIDEO OUTPUT GND	VIDEO OUTPUT GND
18	VIDEO INPUT GND	No connection
19	VIDEO OUTPUT	Y OUT
20	VIDEO INPUT	VIDEO INPUT
21	GND	GND

Caution: RGB reservation for only E/E operation when connecting the Pay TV decoder

㉞ NORMAL/S-VIDEO OUT
NORMAL: Normally set to this position.
S-VIDEO OUT (AV1):
Set to this position when connecting the VTR to a TV set equipped with 21-pin Euro-AV Connector with pins for separate Y/C signal input.

㉟ S-VIDEO OUT
To connect the S-Video cable to a TV or another VTR that has a S-Video input socket.
- If an S-Video cable is connected, other video output is automatically switched off.

㊱ RF OFF/TEST SIGNAL
RF OFF: Set to this position when the VTR is connected to the TV via the 21-pin scart cable.
TEST SIGNAL OFF:
Set to this position when the VTR is connected to the TV via the RF coaxial cable only.
TEST SIGNAL ON:
Set to this position when tuning the TV into the VTR.
The test signal is transmitted on channel 36 initially.

㊲ EDIT
By connecting the optional Editing Controller (VW-EC300E/VW-EC310E) to this socket, such editing functions as Assemble Editing, Insert Editing and Audio Dubbing can be performed more quickly and efficiently between two VTRs or between a VTR and a movie camera.
To connect the Edit cable to a movie camera or to another VTR for One-Touch-Editing.

㊳ AV2 (DECODER/EXT)
To connect to a decoder or another VTR.

㊴ VIDEO OUT
To connect the video cable to a TV or another VTR.

㊵ AUDIO OUT
To connect the sound to a stereo audio system.

㊶ No function

㊷ RF IN
To connect to the external aerial.

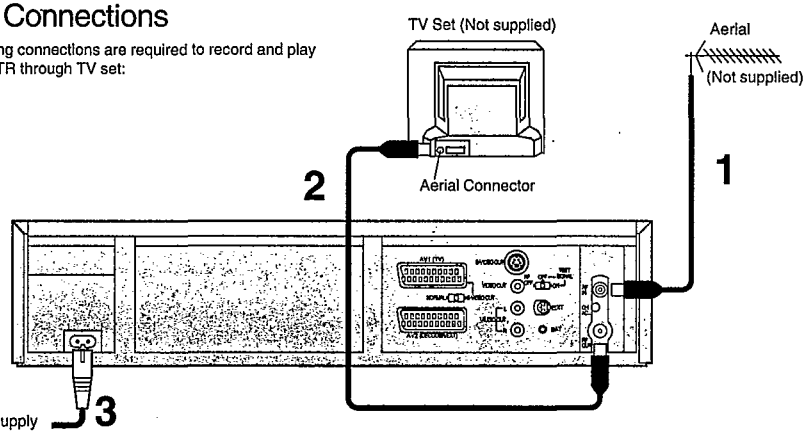
㊸ RF OUT
To connect to the aerial terminal on a TV set.

㊹ CH ADJ.
To adjust the RF transmitting channel 30–42.

This tells you how to connect with an aerial, TV, etc.

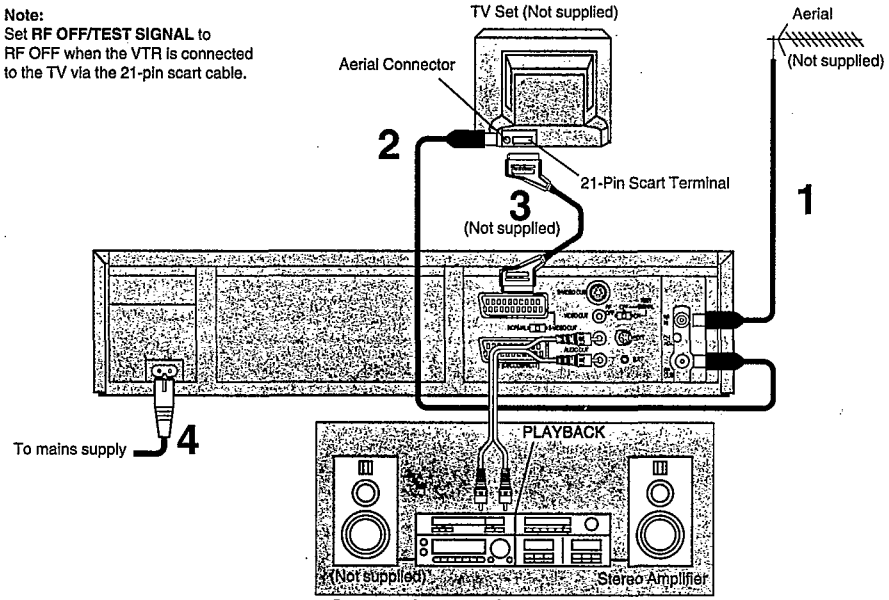
Basic Connections

The following connections are required to record and play back the VTR through TV set:



Connection to a TV Set with 21-Pin Scart Terminal

Note:
Set **RF OFF/TEST SIGNAL** to RF OFF when the VTR is connected to the TV via the 21-pin scart cable.



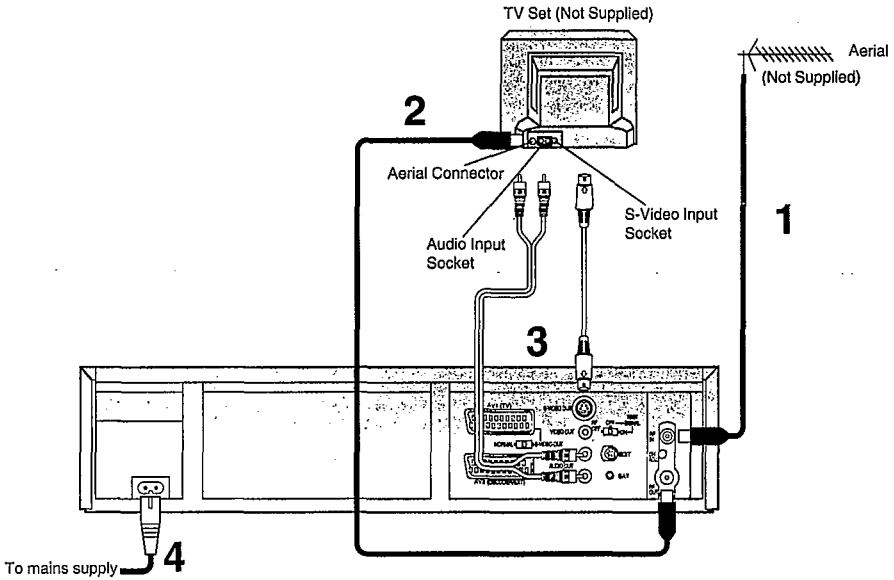
●Connection to a Stereo Amplifier

Connection to a TV Set with S-Video Socket

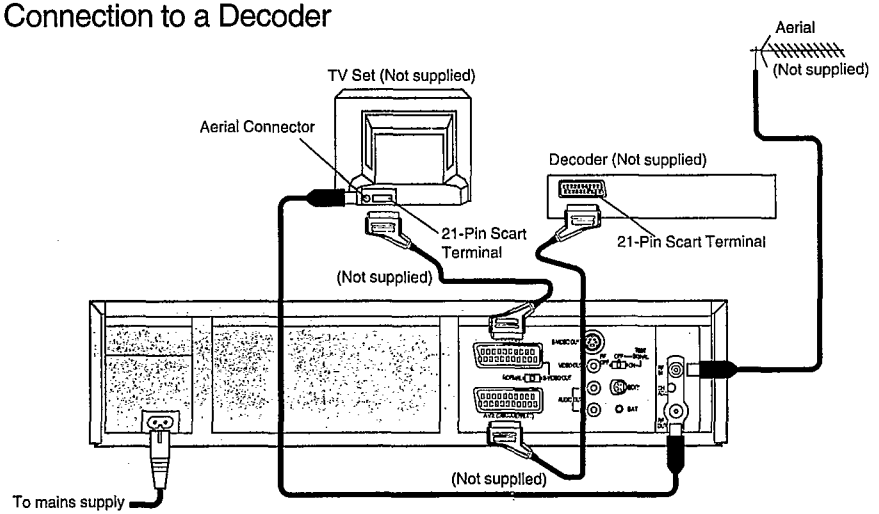
This VTR uses the S-VHS format that makes it possible to obtain high resolution and high picture quality by using the high-performance S-VHS video cassette tapes.

The conventional video sockets of VTRs output (input) a combination of the luminance signal (Y) and colour signal (C) which are recorded on the video tape. The new S (Separate)-Video Socket allows separate transmission of signals in order to obtain clearer pictures.

The connection with the S-Video Cable can also be used for playback of a tape that was recorded in the conventional VHS system. The "S" in the "S-Video Socket" stands for "SEPARATED Y/C" not for "S-VHS".



Connection to a Decoder



Notes:

- If the TV set is provided with an RGB-compatible connector, connect the 21-pin AV cable from the VTR to this connector. Use full-pin 21-pin AV cables for connecting the TV set and VTR and for connecting the VTR and decoder.
- *Set **RF OFF/TEST SIGNAL** to RF OFF when the VTR is* connected to the TV via the 21-pin scart cable.

AV LINK

With this button the connected colour TV set can be switched from TV mode to VTR mode (vice versa) when it is connected by means of 21-pin scart cable.

This makes a variety of functions possible such as simultaneous recording and viewing when a Pay TV decoder or a satellite receiver has been connected.

VTR mode (VTR indicator lights):
To enjoy sound and pictures from the VTR.

- When **MENU** is pressed and the OSD (On Screen Display) screen is displayed, the unit also automatically switches to VTR mode.
  However, if the unit is originally in TV mode, the VTR indicator is not displayed.
- The unit also automatically switched to VTR mode when playback is started. However, the unit cannot be returned to TV mode during playback.

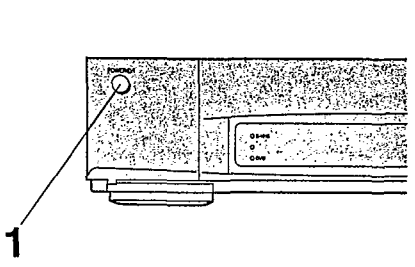
TV mode (VTR indicator goes off):
To watch another programme on the TV while recording on the VTR.

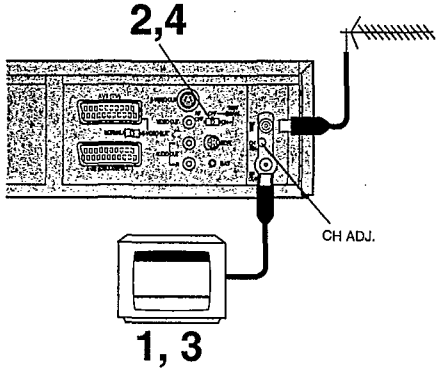
- Select the programme to be watched using the TV set's tuner.
- The sound and pictures of a different channel are received by the VTR.

	VTR	TV set
Power On	VTR mode	AV input selected
	TV mode	*Input from TV set's tuner**
Power Off	—	Input from TV set's tuner

*When the VTR is set to the TV mode and the Pay TV channel is selected, the signals will still be scrambled even when Pay TV is selected by the TV set's tuner. At a time like this, either set the VTR to the VTR mode or switch the TV set's input signals to AV input.

Tuning the TV to your VTR





The VTR supplies a signal to the TV set via the RF coaxial cable on channel 36.
It is possible to view the video picture on your TV in the same way that you watch TV broadcasts.

If you have connected the VTR to the TV through the 21-pin scart terminal, then you do not need to follow the procedure mentioned below.

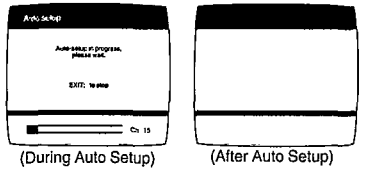
Operations

1 POWER — Turn on the TV and VTR.

2 RF OFF — TEST SIGNAL OFF — ON

To generate a test pattern, set **RF OFF/ TEST SIGNAL** to TEST SIGNAL ON.

3 On Screen Display


(During Auto Setup)

(After Auto Setup)

Set the TV to an unused position which you wish to use for your video playback.

4 RF OFF — TEST SIGNAL OFF — ON

Set **RF OFF/TEST SIGNAL** to TEST SIGNAL OFF.

Note:
The test signal is transmitted on video channel 36. If you are encountering interference from a TV broadcast on this video channel, you may readjust to another free channel (30–42) by using the **CH ADJ.** screw which is located on the rear of the VTR.
Please note that if the **CH ADJ.** screw is used then you will have to retune your TV to the test signal as in item 2 to 4 above.

Auto Setup

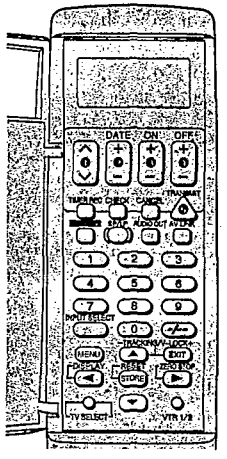
Auto Setup

When the VTR is turned on after connecting the aerial lead and the mains lead, Auto setup (Auto tuning and Auto clock setting) starts.

On Screen Display

- The Auto setup is searching for TV station from VHF minimum to UHF maximum and memorizing the data for every programme position. The other programme positions are skipped.
- The Auto setup takes five or more minutes to complete the search for TV station and the clock setting.

Notes:
- If VTR is not correctly set by Auto setup, see **Various settings** on pages 30–33.
- Auto clock setting will not work correctly if teletext information is not available. If the clock setting screen appears after auto tuning has been completed, set clock manually. See page 33.
- Clock information is subject to teletext information. If year information is not in teletext or time information in teletext is incorrect, set clock manually. See page 33.



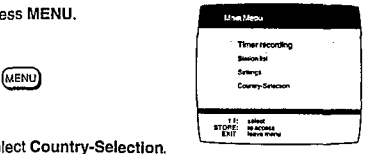
Country-Selection

After the Auto setup is finished, select your country to set TV station list, guide number for ShowView and language.

Preparations

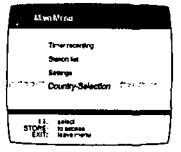
- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.

1 Press **MENU.**



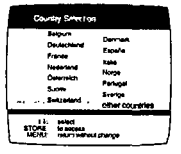
MENU

2 Select **Country-Selection.**



↑ ↓ → STORE

3 Select the desired country.
- Refer to page 37 as well.



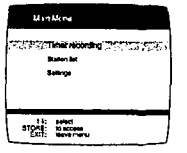
↑ ↓

4 Press **STORE,** and then press **MENU.**

STORE → MENU

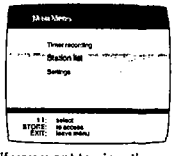
Viewing the TV station list

1 Press **MENU.**



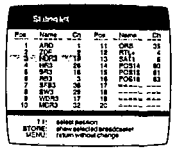
MENU

2 Select **Station list.**



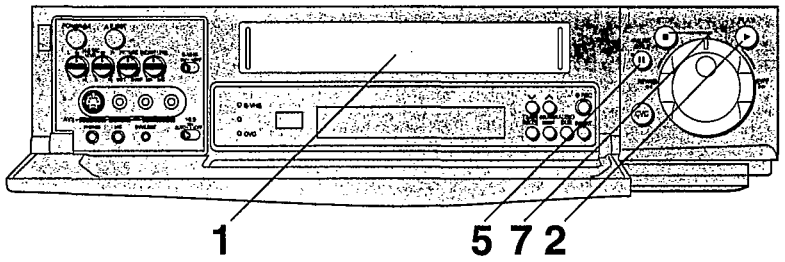
↑ ↓ → STORE

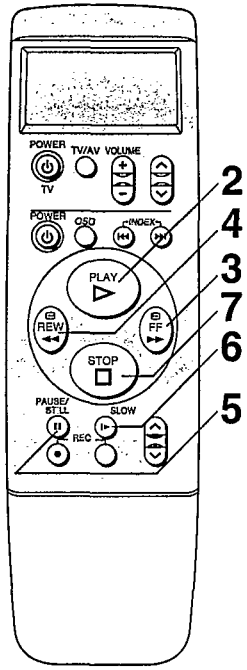
3 Select the desired TV station, if you want to view the broadcast.



↑ ↓ → STORE

Playback





Operations	Display Symbols	
1		Insert a recorded cassette tape.
2 PLAY		Start viewing the picture.
3 FF		Search forward by tapping **FF**. ●To change back to normal playback, press **PLAY**.
4 REW		Search backward by tapping **REW**. ●To change back to normal playback, press **PLAY**.
5 PAUSE/STILL		View a still picture. ●To continue the normal playback, press **PLAY** or **PAUSE/STILL**.
6 SLOW		View the slow motion picture. ●To continue the normal playback, press **PLAY**.
7 STOP		Stop viewing the picture.

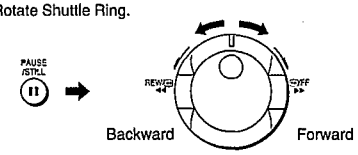
Other Playback Functions

To change the Playback Speed

Using Shuttle Ring:

1 Press **PAUSE/STILL** on the VTR.

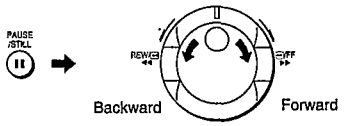
2 Rotate Shuttle Ring.



To locate the Desired Picture Exactly

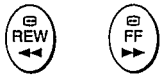
1 Press **PAUSE/STILL** on the VTR.

2 Turn Jog Dial.



To obtain High Speed Picture During Fast Forward or Rewind

Keep **FF** pressed during fast forward.
Keep **REW** pressed during rewind.



To playback the Recorded Part Repeatedly

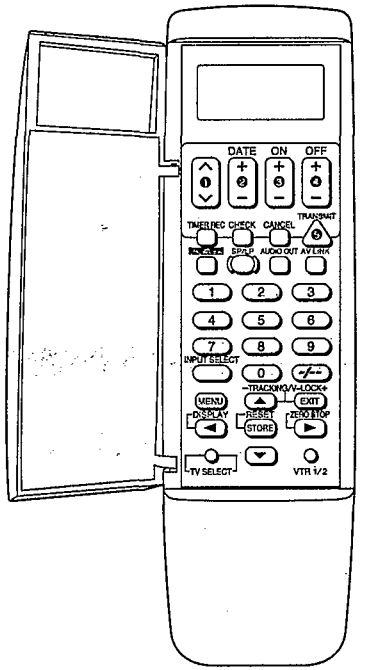
Keep **PLAY** pressed for more than 5 seconds.

●Press **STOP** to release from Repeat Playback mode.

To return to a Specified Scene

1 Press **RESET** to set the counter to 0:00.00.

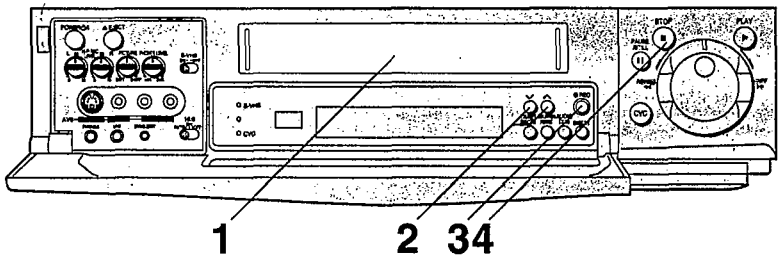
2 After playback, press **ZERO STOP** in the stop mode.
●The tape will be rewound or fast forwarded to 0:00.00 approximately.

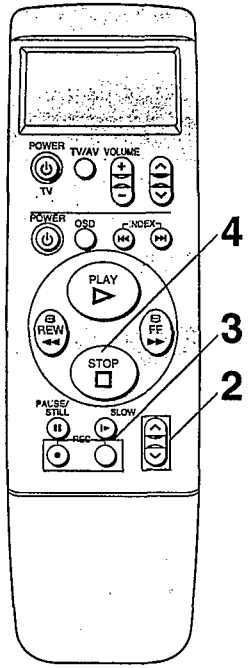


Notes:

- Audio reproduction of linear (conventionally recorded) tapes will be monaural when played back on the FM Hi-Fi video recorders.
- Cue, review or slow playback will be automatically released after 10 minutes, and still playback after 5 minutes.
- In LP mode only:
  1. During any playback mode other than normal *playback, the picture may have some noise bars, the* colour may be unstable, or a black and white picture may appear.
  2. When playing back a tape which was recorded on another VTR, it may be necessary to adjust the Tracking Control. In some cases the picture quality may still be inferior. This is due to limitation of format.

Manual Recording





Operations	Display Symbols	
1		Insert a cassette tape. •If it has already been inserted, press **POWER** to turn the VTR on.
2		Select TV station.
3		Start recording.
4		Stop recording.

To select the Desired Tape Speed

Press **SP/LP** before recording.

To Interrupt Recording

Press **PAUSE/STILL** during recording.
Press again to continue recording.

To record One TV Programme while Viewing Another Programme

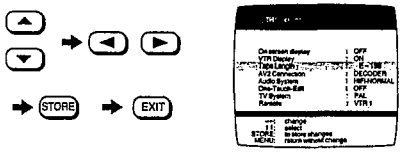
1 Refer to the manual recording operations steps 1 to 3.

2 Select the TV programme on your TV set you wish to view at the present time.

To display the Approximate Remaining Tape Time

1 Select **Tape Length** from On Screen Display and select the corresponding cassette tape length. See page 35.

On Screen Display



◄ E-180: For E30, -60, -90, -120 and -180 tapes.
E-195: For E195 tape.
E-240: For E240 tape.
E-260 ►: For E260 and -300 tapes.

2 Press **DISPLAY**.

→Clock→Counter→**Remaining Tape Time**—

•The remaining tape time may not be displayed correctly depending on the tape used.

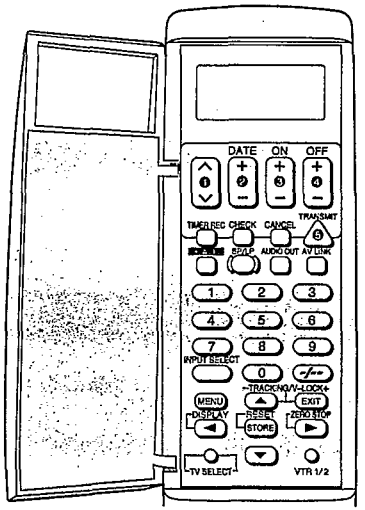
Recording of Stereo and Bilingual Programmes

1 Recording are automatically made in the stereo or bilingual mode. This prevents errors in the selection of the dubbed or the original language.

2 During playback press **AUDIO OUT** to select the desired sound mode. See page 5.

Notes:

•When a video cassette with a broken off tab is inserted, the "OD" indication will flash to indicate that recording is not possible.
•The recording pause mode will be automatically released after 5 minutes, and be back to the stop mode.



The NICAM Broadcast System (NV-HS900EC only)

NV-HS900EC is equipped with the NICAM sound system also.
NICAM is a 2 Channel sound broadcast system to provide either a high quality stereo sound track or 2 independent MONO sound tracks, M1 and M2.
NICAM programmes are always accompanied by standard sound broadcasts and you can select the desired sound with **AUDIO OUT** during playback.

•The NICAM digital stereo sound can only be recorded on the Hi-Fi audio track.
•To record the regular sound (ordinary normal sound) on the FM audio tracks when a Stereo, Bilingual or NICAM programme is received, select **Mono ON** during manual tuning procedure. See page 30.

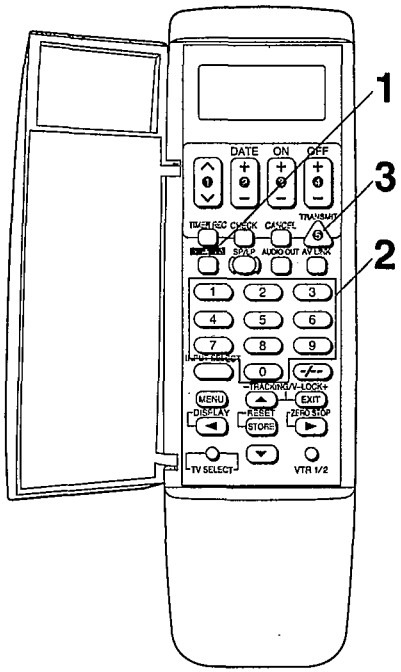
Important Note for the NICAM System

When NV-HS900EC is switched on, the tuner will automatically switch to a NICAM broadcast, if NICAM is being transmitted. During test transmissions, it is possible that the sound received doesn't correspond to the picture being viewed. In order to receive a synchronized sound and picture, select monaural sound with **AUDIO OUT** or **Mono ON** setting. This will only apply until NICAM transmissions are fully operational.
At this time the NICAM signal is transmitted on stereo channels only, since the M1 and M2 formats are not yet available. Even if the sound track is in MONO, the stereo indicator will appear.

Timer Recording

ShowView Programming

Programming is now easier than ever: simply enter the ShowView number provided in the programme schedule column carried by newspapers and magazines. ShowView numbers are numbers which are assigned to each programme listed in the TV programme schedule carried in newspapers and TV guides. When these numbers are entered and **TRANSMIT** is pressed, the numbers are converted into the actual programming.



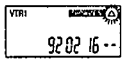
Preparations

- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VTR viewing channel is selected.

Operations **Display Symbols**

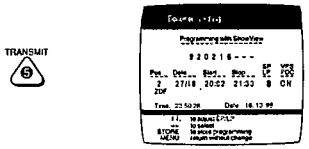
1 Press **SHOWVIEW**.

2 Enter a ShowView number.
Example: 920216

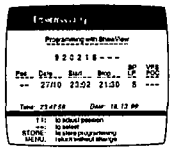


3 Press **TRANSMIT**.

On Screen Display



- The VTR will be in the timer recording standby mode after about 1 minute.
- If the "—" appears in the programme position:



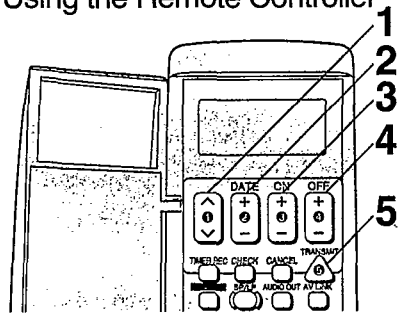
select the programme position of your VTR which receives the TV station you entered at step **2** using button ▲ or ▼.

- To extend the ending time or to make any corrections, use buttons ▲ ▼ ◄ ►.

Notes:

- To release from the standby mode, press **TIMER REC**.
- When the ShowView number is used for programming, the recording time may be slightly longer than the actual programme time.
- When programming two or more programmes, repeat steps **1–3**.
- The procedures for checking and cancelling a timer programme are the same as on page 21.

Using the Remote Controller



For Example:

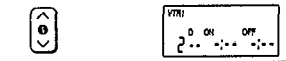
Programme position (channel);	2
Date;	27th, October
Starting time;	20:02
Ending time;	21:30

Preparations

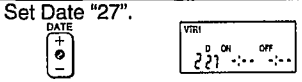
- Insert a cassette tape with an intact erasure prevention tab.
- Open the door of the remote controller.

Operations **Display Symbols**

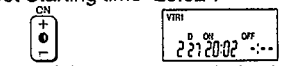
1 Set Programme position (channel) "2".



2 Set Date "27".
DATE

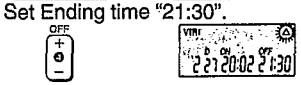


3 Set Starting time "20:02".
ON



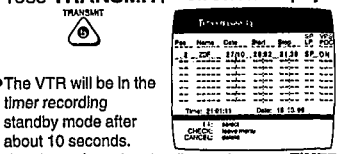
- When it is kept pressed, the indication changes in 30-minute steps.

4 Set Ending time "21:30".
OFF



5 Press **TRANSMIT**.
TRANSMIT

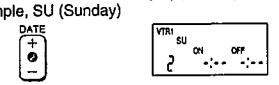
On Screen Display



- The VTR will be in the timer recording standby mode after about 10 seconds.
- To release from the standby mode, press **TIMER REC**.

Weekly Timer Recording

In step **2**, select the desired day by pressing **DATE** —.
For example, SU (Sunday)



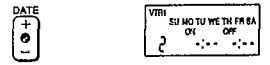
(SU=Sunday, MO=Monday, TU=Tuesday, WE=Wednesday, TH=Thursday, FR=Friday, SA=Saturday)

Daily Timer Recording

For this timer function, several groups of days can be selected.

Ⓐ Daily recording from Monday to Friday
Ⓑ Daily recording from Monday to Saturday
Ⓒ Daily recording from Sunday to Saturday

In step **2**, select the desired days by pressing **DATE** —.
For Example, Ⓒ



Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the AV1 (TV), AV2 (DECODER/EXT) Sockets or AV3 (Audio/Video Input sockets), select the A1, A2 or A3 indicator for the programme position.

A1: Through the AV1 (TV) socket.
A2: Through the AV2 (DECODER/EXT) socket.
A3: Through the AV3 (AUDIO IN/VIDEO IN/S-VIDEO IN) sockets on front panel.

Selecting the Desired Tape Speed

Press **SP/LP** in any of steps **2–4**.

Checking and Cancelling a Timer Programme

The procedures for checking and cancelling a timer programme are the same as on page 21.

Using On Screen Display

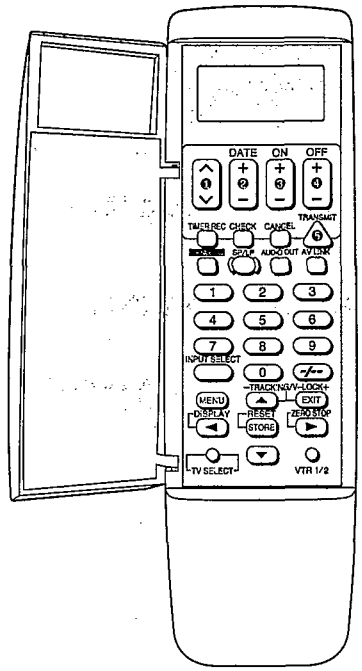
Up to 8 timer programmes can be recorded up to one month in advance by setting the timer, including weekly and daily programmes.

Preparations

- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VTR viewing channel is selected.

For Example:

Programme position (channel);	2
Date;	27th, October
Starting time;	20:02
Ending time;	21:30
(Present date; 16th, October)	

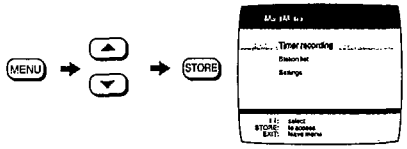


Follow the operation guide on screen display.

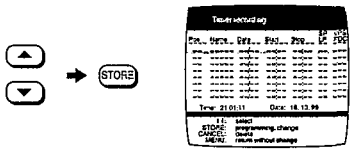
Operations

1 Press **MENU**, and then select **Timer recording.**

On Screen Display

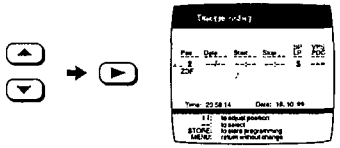


2 Select the unoccupied position.

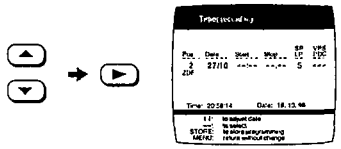


3 Set **Programme position** (channel) "2".

- Press ◄ to return to the previous item.

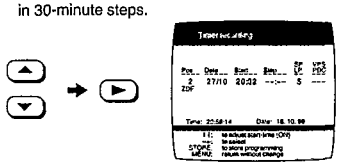


4 Set **Date** "27/10".



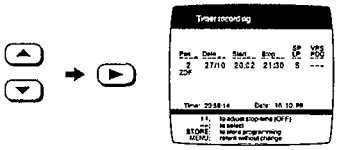
5 Set **Starting time** "20:02".

- When it is kept pressed, the indication changes in 30-minute steps.

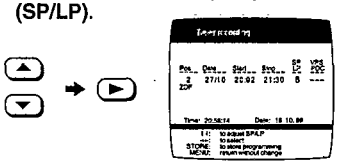


6 Set **Ending time** "21:30".

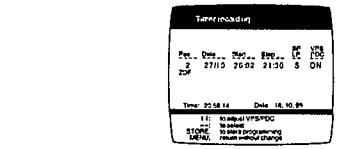
On Screen Display



7 Select the desired **Tape speed (SP/LP).**



8 Select **VPS/PDC ON** or **OFF (---).**



9 Press **STORE.**

10 To activate timer recording, press **TIMER REC.**

Weekly Timer Recording

In step 4, select the desired day by pressing ▼.

Daily Timer Recording

For this timer function, several groups of days can be selected.

Ⓐ Daily recording from Monday to Friday
Ⓑ Daily recording from Monday to Saturday
Ⓒ Daily recording from Sunday to Saturday

In step 4, select the desired days by pressing ▼.

Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the AV1 (TV), AV2 (DECODER/EXT) Socket or the Audio/Video input sockets, select the A1, A2 or A3 for the programme position.

A1: Through the AV1 (TV) socket.
A2: Through the AV2 (DECODER/EXT) socket.
A3: Through the AV3 (AUDIO IN/VIDEO IN/S-VIDEO IN) sockets on front panel.

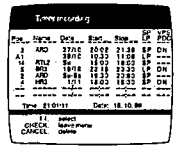
Setting other Programmes in Succession

Repeat steps **2–9.**

Checking a Timer Programme

- The VTR must be turned on, or the timer recording indicator "⏲" is lit.
- Confirm that the TV is on and the VTR viewing channel is selected.

Press **CHECK.**



- On Screen Display may be distorted in the PDC/VPS recording standby mode.

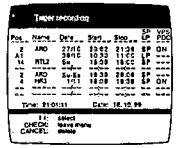
Cancelling a Timer Programme

- The VTR must be turned on, or the timer recording indicator "⏲" is lit.
- Confirm that the TV is on and the VTR viewing channel is selected.

1 Press **CHECK.**

2 Select the desired timer programme.

3 Press **CANCEL.**



Note:

If a timer recording is not performed to the end (due to insufficient tape or cancellation by the user), the programmed timer recording data will be cancelled from the memory by 4 a.m. the next day.
However, if the Timer Record Function is activated at that time, the programmed timer recording data will be cancelled at 4 a.m. the next day.

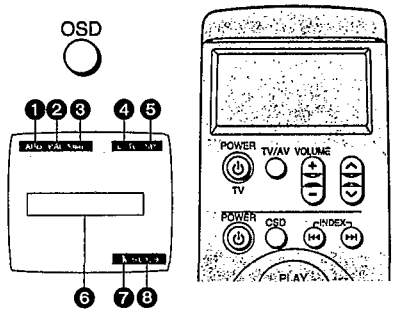
PDC (Programme Delivery Control)/VPS (Video Programme System)

The Programme Delivery Control (PDC) or the Video Programme System (VPS) is a very convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time differs from the scheduled time due to delayed start or extension of the programme duration. Also, if a programme is interrupted and, for example, some special news are inserted, the recording will also be interrupted automatically and resumed when the programme continues.

- In the case of PDC/VPS recording, use the **correct** time (PDC/VPS time) for recording the TV programmes. PDC/VPS recording is not performed when the time (PDC/VPS time) is incorrect, even if only by one minute.
- *If the actual broadcasting times of timer recordings* overlap (regardless of whether they are PDC/VPS controlled), the recording that starts first has always priority, and the recording of the later beginning programme will start only after the first timer recording has finished.
- When the PDC/VPS signal drops out because the broadcast signal is weak, or when a broadcasting station does not transmit a regular PDC/VPS signal, the timer recording will be performed in the normal mode (without PDC/VPS) even if it was programmed for PDC/VPS. In this case, even if the timer recording is performed, whatever has been programmed will not be cancelled at that particular time but at 4 a.m. on the following day.

On Screen Display

Press **OSD** to make the On Screen Display appear on the TV screen.



1. **TV station**
2. **TV system**
3. **Stereo or Bilingual Indicator**
   When receiving a TV programme, the type of sound system in which it is broadcast is automatically indicated.
4. **Audio Output Mode Indicators**
   The Left (L) and Right (R) indicators show which *sound mode is selected with* **AUDIO OUT.**
   Stereo: Both the L and R indicators appear.
   Left: The L indicator appears.
   Right: The R indicator appears.
   Normal: Both the L and R indicators don't appear.
5. **Tape speed indicator**
6. **Error message**
7. **Tape running display**

Stop, Eject	■
Rewind	◀◀
Fast Forward	▶▶
Playback	▶
Recording	●
Repeat Playback	R
Insert Editing	INSERT
AV Insert Editing	AV INSERT
Audio Dubbing	A DUB

8. **Present time/Tape counter**

Information	Display
Present time	17:24:31
Tape counter	−2:35.47
Remaining tape time	REMAIN 2:34

Notes:
- On Screen Display may be disturbed or disappear during special playback.
- When the item **"On screen display"** is set to OFF, the On Screen Display will not appear. (See page 34.)

VHS Index Search System

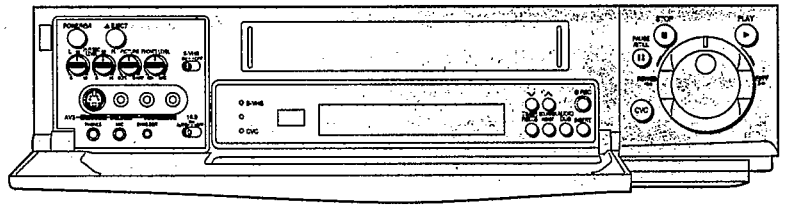
It is very easy to find the beginning of each recording, because a special index signal is recorded at the start of each recorded segment on the tape.

For example:
Searching for the 2nd recorded segment in the forward direction.

Press **INDEX ▶▶I** twice.

- After finding the specific recorded segment, playback starts automatically.
- For the reverse direction, press **INDEX I◀◀.**
- Up to 20 index signals can be searched for in both directions.
- When the opposite **INDEX** button is pressed, the number shall be decreased till 1.
- The figure on the display is decremented by 1 each time an index signal is located.
- The INDEX search function can only work correctly, if the index signals are spaced at least 3 minutes apart in the SP mode and 5 minutes apart in the LP mode.

Recording Index Signals
Index signals are recorded in following cases.
- When a recording is started by pressing **REC.**
- When **REC** is pressed during recording.
- When timer recording is activated.



NTSC Playback

Tapes recorded in the NTSC system can be played back with this VTR via a PAL system TV set.

- The playback picture may roll up or down. If the TV set is equipped with a V-HOLD control, it may be possible to stop the picture movement by adjusting this control.
- Depending on the TV set used, the picture may be in black and white. However, this is not an indication of a malfunction.

Other Automatic Functions

Automatic Playback

When a cassette without an erasure prevention tab is inserted, the VTR starts playback automatically.

VTR-off Playback

When the VTR is off, an inserted cassette can be played back by pressing **PLAY**.

Automatic Rewinding

When the tape reaches its end during recording (except for timer recording) or playback, it will automatically be rewound to the beginning.

Automatic Switching Off and Ejection

When the VTR is switched off, and inserted cassette can be ejected simply by pressing **EJECT**. The VTR will eject the cassette and automatically turn itself off again.

Editing

Assembly Editing

This function can be used to make up an edited tape from other recordings or video sources.

A new scene can be added to the end of a previous one.

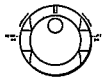
Preparations

- Connect a movie camera or another VTR to this VTR as shown.
- Insert a recorded cassette tape with an intact erasure prevention tab.
- Select the video source required by pressing **INPUT SELECT** to set A1, A2 or A3.
  - A1: Through the AV1 (TV) socket.
  - A2: Through the AV2 (DECODER/EXT) socket.
  - A3: Through the AV3 (AUDIO IN/VIDEO IN/S-VIDEO IN) sockets on front panel.

Operations

1 Press **PAUSE/STILL** on the recording VTR.

2 Search for the end of the previous recording.



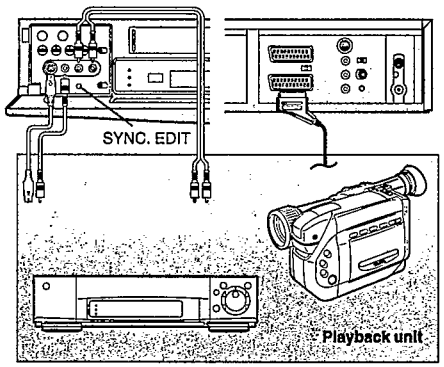
3 Press **REC** to switch the VTR from the pause mode to the recording standby mode.

4 Start the new recording by pressing **PAUSE/STILL** again.

5 Press **STOP** to stop recording.

Note:
The new sound will be recorded on both the normal and HI-FI sound tracks, only monaural sound recording is possible on the normal sound tracks.

Recording VTR



Synchronized Editing

It is possible to synchronize the playback start and stop of the Movie Camera with the recording start and stop of this VTR.

Preparations

- Connect a Movie Camera to this VTR with Synchro Connection Cord (VW-K1E).
- Select **One-Touch-Edit** to OFF for synchronized editing. (See page 36.)

1 Put the VTR in the recording pause mode by pressing **REC** and **PAUSE/STILL**.

2 Put the Movie Camera in the still playback mode at the point where you want to start editing.

3 Press **PAUSE/STILL** on the VTR.
- The Movie Camera changes over to the playback mode and the dubbing will start automatically.

Synchronized Editing between the VTRs
When editing from another VTR equipped with Synchro Edit Socket, synchronized start and stop of both VTRs can be activated from this VTR.

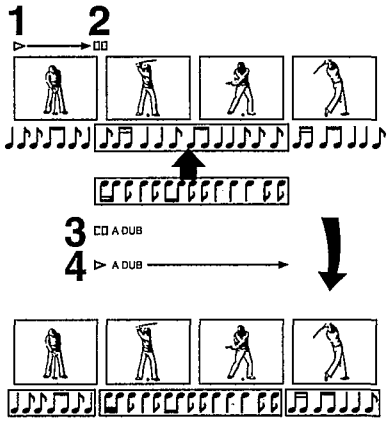
The operation is the same as described for synchronized editing from a Movie Camera.

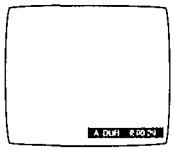
Audio Dubbing

The audio dubbing is made on the normal audio track and erases the original sound on this track. On Hi-Fi audio tracks, however, the original sound is maintained.

Preparations

- Insert a recorded cassette with an intact erasure prevention tab.
- Select the video source required by pressing **INPUT SELECT** to set A1, A2 or A3.
  - A1: Through the AV1 (TV) socket.
  - A2: Through the AV2 (DECODER/EXT) socket.
  - A3: Through the AV3 (AUDIO IN) sockets on front panel.



Operations		Display Symbols	
1	PLAY		Search for the starting point for audio dubbing.
2	PAUSE/STILL		Press **PAUSE/STILL** at the starting point.
3	AUDIO DUB	On Screen Display 	Set for audio dubbing by pressing **AUDIO DUB**. • On some televisions, the screen image may become unstable or begin to scroll at this point. However, this is not an indication of a malfunction.
4	PAUSE/STILL		Start recording the new sound by pressing **PAUSE/STILL**. • Stop recording by pressing **STOP**.

Note:
The new sound will be recorded on the normal sound track of the tape, and the original sound will remain on the Hi-Fi sound track. Only monaural sound recording is possible on the normal sound track.

To hear the new sound, select the normal sound track by pressing **AUDIO OUT**.
To hear the new sound and original sound mixed together, set **Audio System** to HIFI-MIX. (See page 35.)

Audio dubbing with Panasonic Hi-Fi VTR

General
a) Due to VHS format reasons, audio dubbing can be performed only on the normal audio track.
b) The Hi-Fi audio tracks cannot be influenced without erasing the video signal.
c) The audio dubbing function is provided with an automatic recording function. The volume level cannot be adjusted. When dubbing to the HI-Fi VTR, the volume level must be considered in advance.
d) There are three types of audio dubbing (A–C):

A. Audio dubbing on the normal audio track

1. Select the desired AV input.
1.2. The microphone input may also be selected. In this case, the microphone signal has priority.
   Disconnect the microphone when other audio signals are to be used.
2. Locate the recording starting point and press **PLAY-PAUSE**.
3. Press **AUDIO OUT** three times to select the normal audio track.
4. Press **AUDIO DUB**.
5. Start audio dubbing by releasing the pause function.
6. After audio dubbing has been completed, rewind the tape and make sure that the normal audio track is selected. (Step 3)
7. Check the audio dubbing.

B. Audio dubbing on the normal audio track with Hi-Fi Mix function

1. Select the desired AV input.
2. Locate the recording starting point and press **PLAY-PAUSE**.
3. The HI-FI tracks should be set to playback.
   - When a videocassette is inserted, the Hi-Fi tracks are automatically set to playback.
   - Hi-Fi tracks must be recorded. Copy the audio signal, if necessary.
4. Press **AUDIO DUB**.
5. Start audio dubbing by releasing the pause function.
6. After audio dubbing has been completed, rewind the tape and set **Audio System** to HIFI-MIX. (See page 35.)
7. Check the audio dubbing.
   The original sound and the new sound are heard simultaneously.

C. Audio dubbing on the normal audio track with original sound and new sound

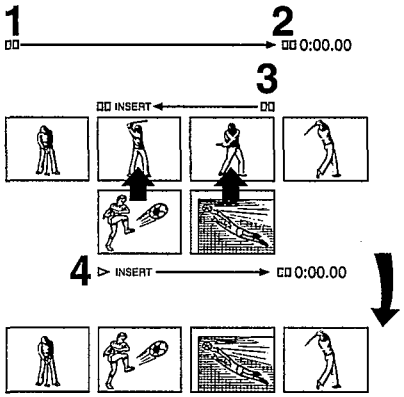
1. Select the desired AV input.
2. Locate the recording starting point and press **PLAY-PAUSE**.
3. The Hi-FI tracks should be set to playback.
   - When a videocassette is inserted, the HI-FI tracks are automatically set to playback.
   - Hi-FI tracks must be recorded. Copy the audio signal, if necessary.
4. Press **AUDIO DUB**.
   - Input the original signals of the Hi-FI tracks (Audio-Out) to a mixing console (optional) and mix with the new sound as required.
5. Start audio dubbing by releasing the pause function.
6. After audio dubbing has been completed, rewind the tape and make sure that the normal audio track is selected. (Step 3)
7. Check the audio dubbing.

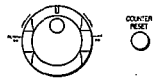
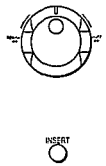
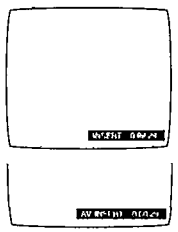
Insert Editing

This is used to substitute one scene for another providing.

Preparations

- Insert a recorded cassette with an intact erasure prevention tab.
- Select the video source required by pressing **INPUT SELECT** to set A1, A2 or A3.
  - A1: Through the AV1 (TV) socket.
  - A2: Through the AV2 (DECODER/EXT) socket.
  - A3: Through the AV3 (AUDIO IN/VIDEO IN/S-VIDEO IN) sockets on front panel.



Operations	Display Symbols	
1		Press **PAUSE/STILL** on recording the VTR.
2		Search for the Edit out (ending) point, and set the counter to 0:00.00 by pressing **COUNTER RESET**.
3	  On Screen Display	Search for the Edit in (starting) point, and press **INSERT**. • If you want to replace the sound on the "normal" audio track, press **AUDIO DUB**, too. (AV Insert Editing)
4		Start Insert editing by pressing **PAUSE/STILL**. • The Insert editing will finish when the counter reaches 0:00.00.

Note:
Insert Editing cannot be used on blank sections of a tape. In this case use Assembly Editing first.

The new sound will be recorded on the Hi-Fi sound track. If AUDIO DUB selected, the new sound will also be recorded on the normal sound track.

Only monaural sound recording is possible on the normal sound tracks.

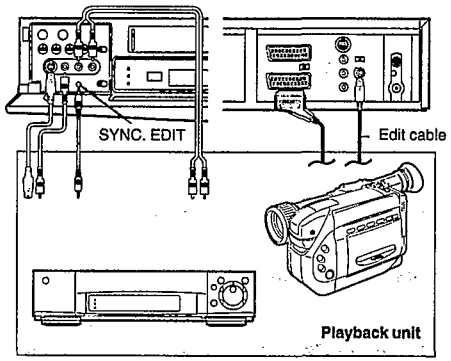
One-Touch-Editing

With this editing, it is easy to perform repeated assemble editing, Insert editing or audio dubbing operations.

Preparations

- Before proceeding with the connections, check that the AC mains lead of both VTRs have been connected.
- Before the VTR is connected to a movie camera or another VTR, select **One-Touch-Edit** to ON. (See page 36.) The playback VTR display or movie camera viewfinder image may be abnormal if the edit cable is connected with **One-Touch-Edit** left OFF.
- Connect a movie camera or another VTR to this VTR as shown.
- Use the **SYNC. EDIT** socket when connecting this unit to a VTR or movie camera equipped with a LANC socket.
- Insert a recorded cassette tape with an intact erasure prevention tab.
- Select the video source required by pressing **INPUT SELECT** to set A1, A2 or A3.
  - A1: Through the AV1 (TV) socket.
  - A2: Through the AV2 (DECODER/EXT) socket.
  - A3: Through the AV3 (AUDIO IN/VIDEO IN/S-VIDEO IN) sockets on front panel.
- Upon completion of the One-Touch Editing, disconnect the edit cable.

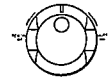
Recording VTR



Operations

1 Press **PAUSE/STILL** on the recording VTR.

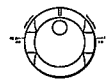
2 Search for the end of the previous recording.



3 Press **REC** to switch the VTR from the pause mode to the recording standby mode.

- The playback VTR will be in still mode.
- If **INSERT** or **AUDIO DUB** is pressed instead of **REC**, Insert Editing or Audio Dubbing can be performed.

4 Search for the Edit in (starting) point on the playback VTR.



5 Start One-Touch-Editing by pressing **PAUSE/STILL** again.

6 Press **PAUSE/STILL** at the Edit out (ending) point on the playback VTR.

- For Editing in succession, repeat 4 to 6.

7 Press **STOP** to stop editing.

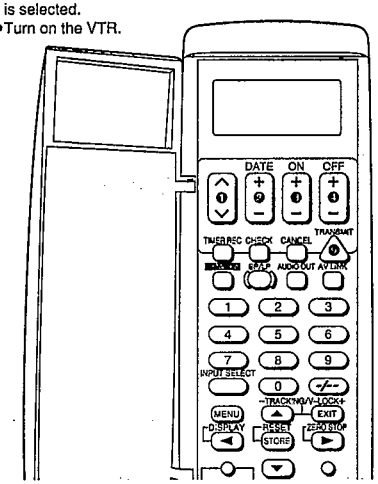
Storing TV Broadcasts into your VTR

Introduction

The VTR is fitted with its own tuner (just like a normal TV set) and can be pre-set to receive up to 99 TV broadcast stations.
If VTR is not correctly tuned by Auto setup, follow the procedure bellow.

Preparations

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.



Manual Tuning Procedure

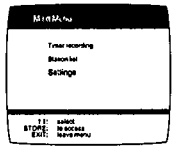
Follow the operation guide on screen display.

Operations

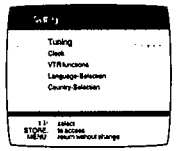
1 Press **MENU**.

2 Select **Settings**.

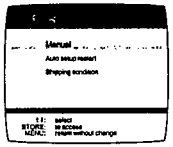
On Screen Display



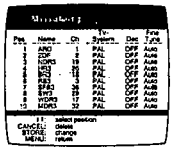
3 Select **Tuning**.



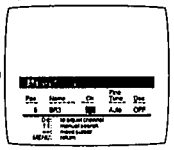
4 Select **Manual**.



5 Select desired programme position.

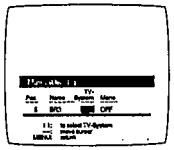


6 Select Channel **(Ch)**.



7 Select **Dec ON** or **Dec OFF**.
ON: To preset pay TV stations.
OFF: To preset normal TV stations.

8 Use ◄ ► to display the next screen.
Select **TV System**.
PAL: For receiving PAL signal.
MESECAM: For receiving SECAM signal.



9 **NV-HS900EC only**
Select **Mono OFF**.
- Select **Mono ON** to record the normal sound during a stereo, bilingual or NICAM broadcast or if the stereo sound is distorted due to inferior reception conditions.

10 Press **MENU**, and then press **EXIT**.

Channel Plan

Channel Indication	TV Channel	
	Germany/Italy	Other Countries
2–12	*E2–E12	E2–E12
13–20	A–H (Only Italy)	——
21–69	21–69	21–69
74–76	——	S1–S3
80–82	——	M1–M3
83–89	S4–S10	M4–M10
90–99	S11–S20	U1–U10
121–141 Hyperband	**S21–S41	S21–S41

*In Italy: H1...(11), H2...(12)
**Only for 8 MHz channel raster

To change the programme position or TV station name:

After step **5** but before step **8**, select the programme position **(Pos)** or TV station name **(Name)** item using ◄ ►, and then make the desired change.

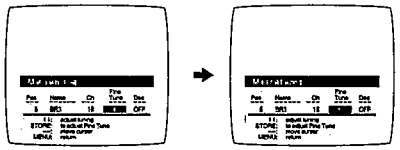
Fine Tuning Procedure

Follow steps **1** to **5** on page 30.

6 Select **Fine Tune**.

7 Press ▲ or ▼ to obtain the best tuning condition.
- To return the tuning to its former state, press **STORE**.

On Screen Display



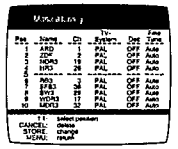
8 Press **MENU**, and then press **EXIT**.

Blanking of Unoccupied Programme positions

Follow steps **1** to **4** on page 30.

5 Select the desired TV station.

6 Press **CANCEL**.



- Repeat steps **5** and **6** for another unoccupied programme positions to skip during the selection of the programme positions.

7 Press **EXIT**.

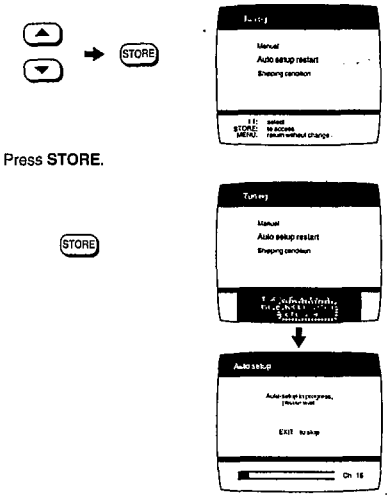
Setting the Clock of your VTR

Auto Setup Restart

When your address changes, follow the procedure below.
Follow the steps **1** to **3** on page 30.

4 Select **Auto setup restart.**

On Screen Display

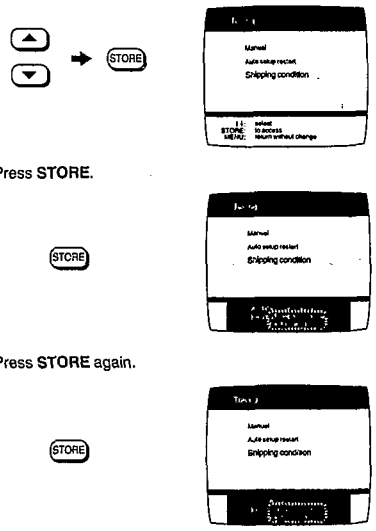


5 Press **STORE.**

Shipping Condition

If you want to return the VTR to the factory-preset condition, follow the procedure bellow.
Follow the steps **1** to **3** on page 30.

4 Select **Shipping condition.**



5 Press **STORE.**

6 Press **STORE** again.

Note:
To re-tune VTR, disconnect mains lead and then reconnect mains lead. If VTR is off, turn on the VTR. Auto setup starts.

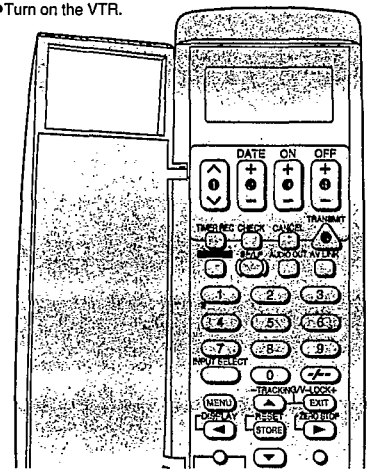
The built-in clock is used to activate the timer for automatic recording and must be set to the correct time.

The built-in digital clock employs the 24-hour system.

If VTR is not correctly set by Auto setup, follow the procedure below.

Preparations

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.



Manual Clock Setting

Follow the operation guide on screen display.

Operations

1 Press **MENU**, and then select **Settings.**

2 Select **Clock.**

3 Select **Manual setting.**

4 Set **Time (H/M).**
- When it is kept pressed, the indication changes in 30-minute steps.
- Press ◄ to return to the previous item.

5 Set **Date (D).**

6 Set **Month (M).**

7 Set **Year (Y).**
- There is no need to press ►.

On Screen Display

8 Press **STORE.**
- The clock will start.

9 Press **EXIT.**

Automatic Clock Setting

Follow steps **1** to **2** of the above procedure.

3 Select **Automatic setting.**

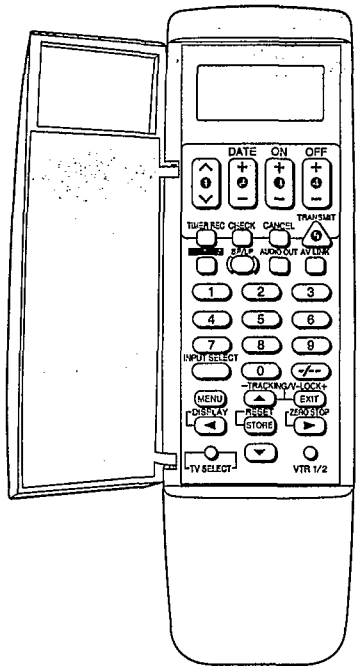
4 Press **STORE.**
- The clock is set automatically.

Notes:
- The clock operates for at least 60 minutes by its backup system in the event of power failure.
- When the item **"Automatic clock-set is"** is ON on screen display, Automatic time correcting function is activated.
  The Automatic time correcting function is only activated when the power is off. This function is not activated during timer recording standby mode.

Settings Using On Screen Display

Preparations

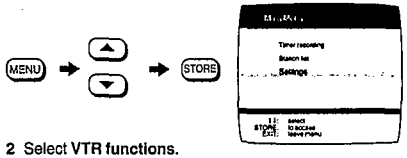
- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.



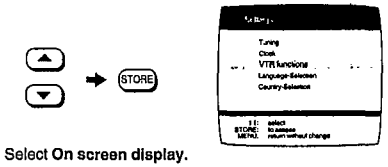
VTR functions

On Screen Display

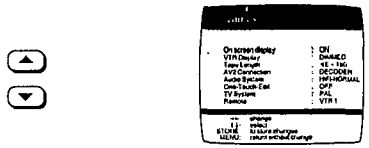
1 Press **MENU**, and then select **Settings**.



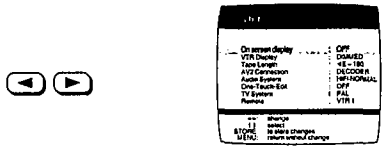
2 Select **VTR functions**.



3 Select **On screen display**.



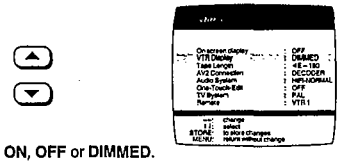
4 Select **ON** or **OFF**.



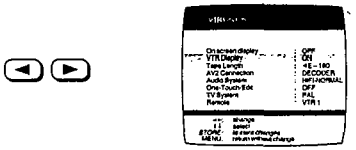
ON: The On Screen Display will appear on the TV screen by pressing **OSD**.
OFF: The On Screen Display will not appear even if **OSD** is pressed.

VTR Display

1 Select **VTR Display**.



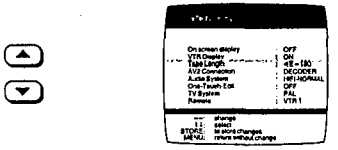
2 Select **ON, OFF** or **DIMMED**.



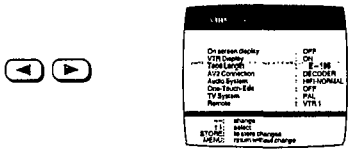
ON: When VTR is turned off, the characters are lit in the VTR display.
OFF: When VTR is turned off, the characters are not lit in the VTR display.
DIMMED: When VTR is turned off, the characters are dimmed in the VTR display.

To select the Corresponding Cassette Tape Length for Displaying the Approximate Remaining Tape Time

1 Select **Tape Length**.



2 Select the corresponding cassette tape length.

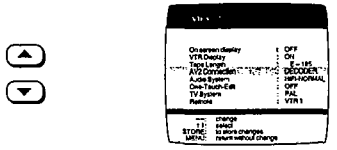


◀ E-180: For E30, -60, -90, -120 and -180 tapes.
E-195: For E195 tape.
E-240: For E240 tape.
E-260 ▶: For E260 and -300 tapes.

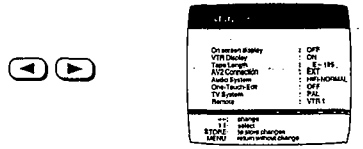
- The times displayed may differ depending on the tape used.

AV2 Connection

1 Select **AV2 Connection**.



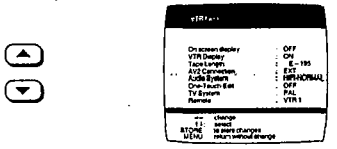
2 Select **EXT** or **DECODER**.



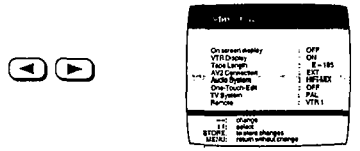
EXT: When another VTR is connected to the AV2 (DECODER/EXT) socket.
DECODER: When the decoder is connected to the AV2 (DECODER/EXT) socket.

Audio System

1 Select **Audio System**.



2 Select **HIFI-NORMAL** or **HIFI-MIX**.

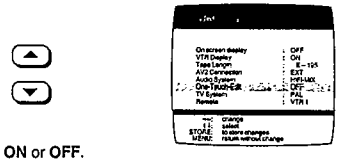


HIFI-NORMAL: Normally set at this position to reproduce the better sound available from the Hi-Fi track.
HIFI-MIX: Both sound tracks (the Hi-Fi sound track and the normal sound track) are played back mixed together. Use this setting when playing back a cassette tape which has been insert edited or audio dubbed.

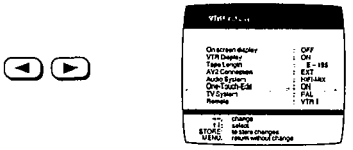
One-Touch-Edit

1 Select **One-Touch-Edit**.

On Screen Display



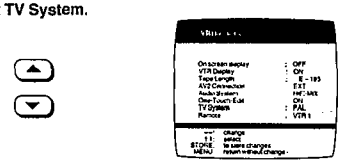
2 Select **ON** or **OFF**.



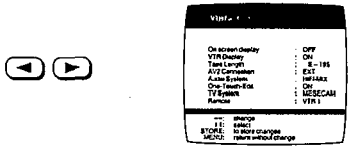
ON: For One-Touch-Editing.
OFF: For editing with editing controller or synchronized editing.

To set the Colour TV System

1 Select **TV System**.



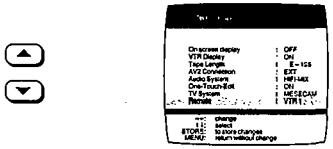
2 Select **PAL** or **MESECAM**.



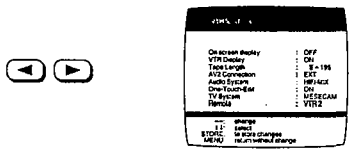
- Set according to the colour TV system used during playback or external recording.

Remote Control Mode

1 Select **Remote**.



2 Select **VTR1** or **VTR2**.



VTR1: Set to this position on both the VTR and remote controller for normal use with one VTR.
VTR2: Set to this position when using two Panasonic VTRs.
This allows to operate VTR1 or VTR2 with remote controller.

- After changing the remote control mode, press **VTR1/2** to change the remote control mode of the remote controller. If this is not done, it will not be possible to operate the VTR using the remote controller.

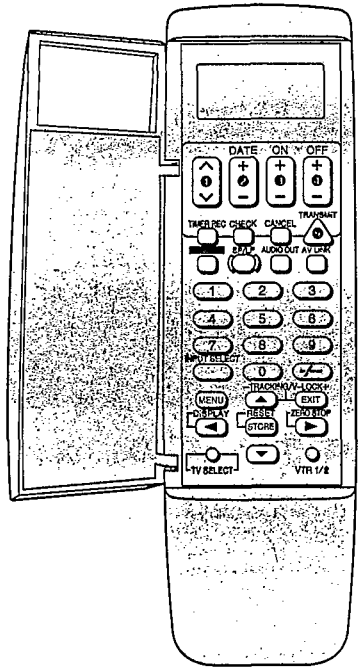
After All Settings are selected

Press **STORE**, and then press **EXIT** to make On Screen Display disappear.

STORE → EXIT

Language-Selection

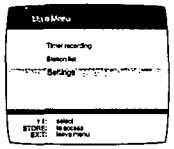
To change the language setting for On Screen Display, follow the steps bellow.



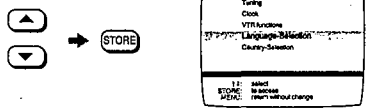
1 Press **MENU**, and then select **Settings**.

On Screen Display

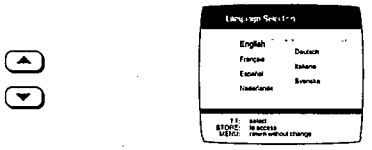
MENU → STORE



2 Select **Language-Selection**.



3 Select the desired language.



4 Press **STORE**, and then press **EXIT**.

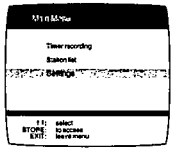
STORE → EXIT

Country-Selection

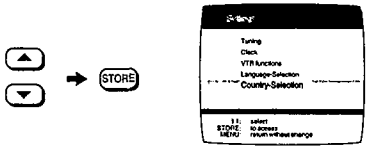
To change the country setting, follow the steps bellow.

1 Press **MENU**, and then select **Settings**.

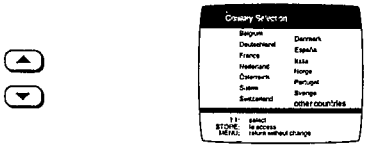
MENU → STORE



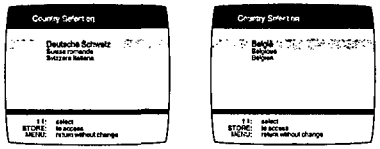
2 Select **Country-Selection**.



3 Select the desired country.



- When Switzerland or Belgium has been selected, operation moves to the screen which follows. Select the item in accordance with the language required.

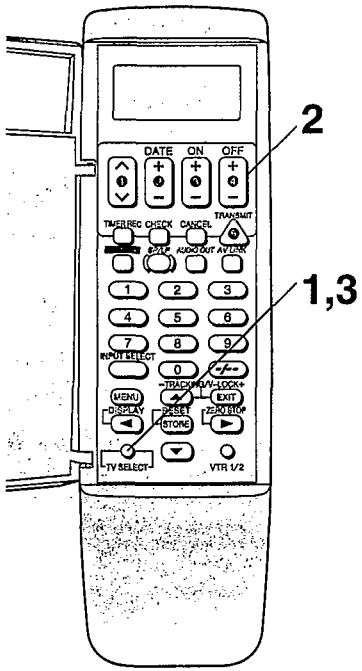


4 Press **STORE**, and then press **EXIT**.

STORE → EXIT

Setting the Remote Controller for Operation of your TV

You can operate some TV manufacturers (see next page) using the supplied Remote Controller after this setting up.

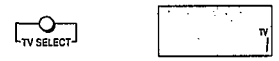


Preparation

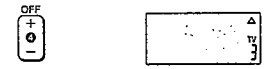
Turn on the TV.

Operations	*Display Symbols*

1 Keep **TV SELECT** pressed for more than 2 seconds.



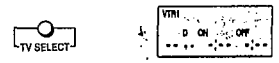
2 Press **OFF** several times.



- When the number matches the manufacturer of your TV, the TV's power is turned off.

Read through the information on the following page as well.

3 Press **TV SELECT**.



How to change the number

Each time the "+" side of **OFF** is pressed, the number is counted up by one as follows:

→1→2→3...28→

When the "–" side is pressed, the number is counted down by one in the reverse order to that indicated above.

Note:

Some TV models cannot be operated using this remote controller.

Number	Manufacturer
1–4	Panasonic
5	GRUNDIG, Blaupunkt, SIEMENS
6	PHILIPS, LOEWE, SAMSUNG, RADIOLA, DUAL, PYE, BUSH, GOODMANS, ELEMIS, CURTIS
7	SONY
8	METZ
9*	FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA
10*	FERGUSON, THOMSON, TELEFUNKEN, GOODMANS
11*	FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA
12*	FERGUSON, TELEFUNKEN, GOODMANS, SABA
13*	TELEFUNKEN
14*	FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA
15*	FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA, NORDMENDE, BRANDT
16*	TELEFUNKEN
17, 18	HITACHI
19	SIEMENS
20	SAMSUNG
21	ITT, NOKIA, SELECO
22	NOKIA, SALORA
23	MIVAR
24	TOSHIBA
25	SANYO
26	SHARP
27	JVC
28	MITSUBISHI

When a TV manufacturer has the plural number
For example, When the number is 1, 2, 3 or 4 (Panasonic):

When the TV's power is turned off in step 2 above, turn it back on and adjust the TV's volume using this remote controller. The volume can be adjusted if the number matches the TV manufacturer. If it is not possible to adjust the TV's volume, try setting the number (1 to 4) to match the TV manufacturer again until the volume can be adjusted.

***When the number is 9–16**

How to change the programme position of TV:

1 Press ∧ **(TV)** to make **POS** appear on screen display.

2 Press **VOLUME** + or –.
- To adjust the TV's volume using the remote controller after that, press ∧ **(TV)** to make **POS** on screen *display disappear and then adjust the volume. For* some models, **POS** disappears automatically after several seconds. In these cases, this operation is not necessary.

Note:

FERGUSON, THOMSON, TELEFUNKEN, GOODMANS and SABA have plural numbers. Although some models may operate with any of these numbers, other models may operate with only one number. Check each number in turn, and set the optimal number.

SECTION 2
ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2-1-1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

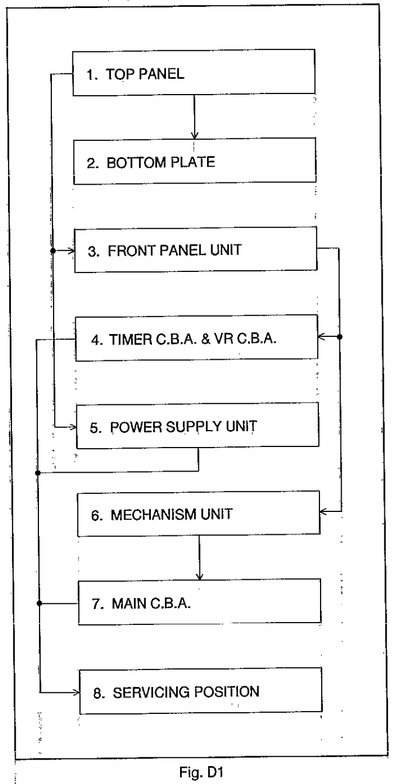


Fig. D1

2-1-2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove..... 4 Screws (A)

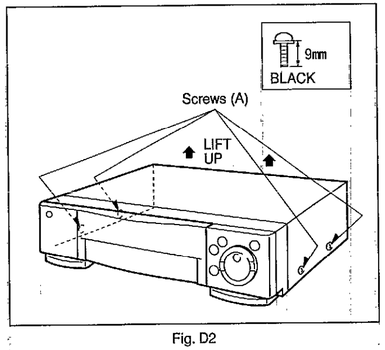


Fig. D2

2. REMOVAL OF THE BOTTOM PLATE

Unlock ..... 6 tabs (B)

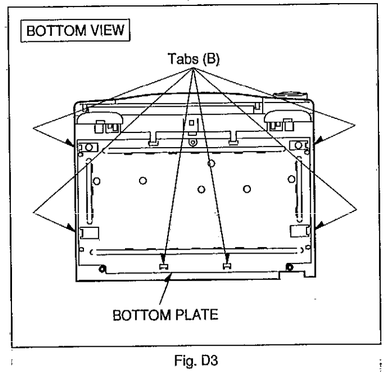


Fig. D3

3. REMOVAL OF THE FRONT PANEL UNIT

Pull out ..... JOG & SHUTTLE Knob
Unlock ..... 11 Tabs (C)

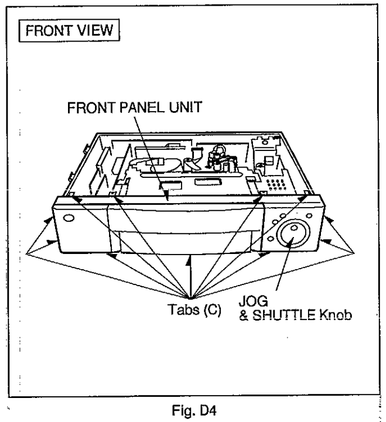


Fig. D4

4. REMOVAL OF THE TIMER C.B.A. & VR C.B.A.

REMOVAL OF THE TIMER C.B.A.
Disconnect.....Bridge connector (D)
Unlock..... 5 Tabs (E)

REMOVAL OF THE VR C.B.A.
Disconnect.....Bridge connector (D)
Unlock..... 2 Tabs (F)

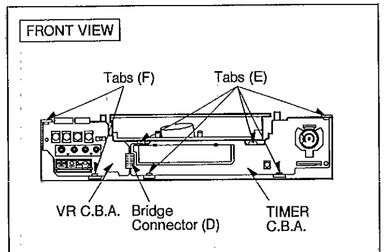


Fig. D5

5. REMOVAL OF THE POWER SUPPLY UNIT

Disconnect.....Bridge connector (G)
Unlock..... 5 Tabs (H)
Unlock..... 2 Tabs (I)

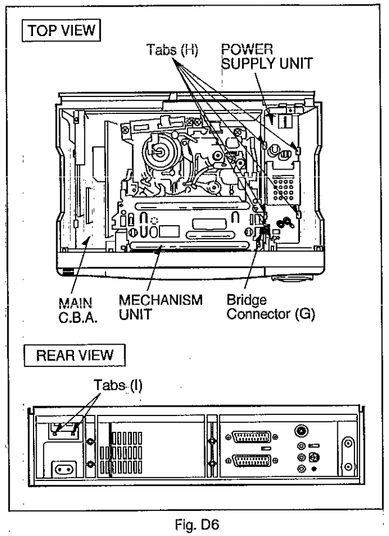


Fig. D6

CAUTIONS:
Please pay an attention to disconnect the connector (P1001-P1102) which connected between Main C.B.A. and Power supply unit as shown below.

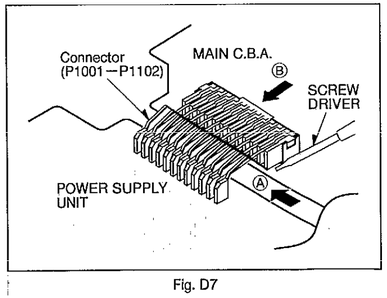


Fig. D7

As above drawing, disconnect the connector by SCREW DRIVER from the direction Ⓐ.
Do not disconnect from direction Ⓑ because it is possibility to damage the parts located by the connector.

6. REMOVAL OF THE MECHANISM UNIT

Remove ..... 3 Screws (J)
Remove ..... Screw (K)

7. REMOVAL OF THE MAIN C.B.A.

Disconnect ... Bridge connector (G) [Fig. D6]
Remove ..... 2 Screws (L)
Unlock..... 5 Tabs (M)

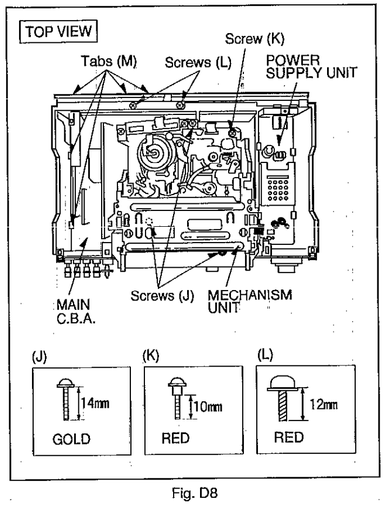


Fig. D8

8. SERVICING POSITION

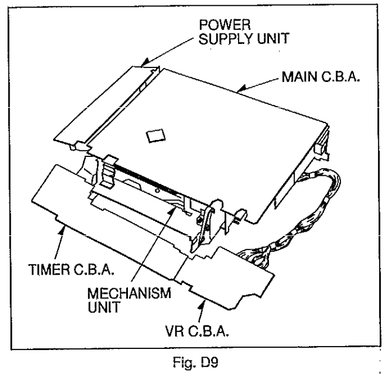


Fig. D9

2-2. MECHANICAL ADJUSTMENT PROCEDURES

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

CAUTIONS:

To make a Adjustment Mode for Tape Interchangeability, there are two ways to turn off the Auto Tracking.

(1) Connect a jumper wire between TL SERV and GND as shown Location of Test Points & Controls (Page: 2-4).
(2) Turn the Shuttle Ring to FF then push the EJECT button 3 times to set the Service Mode 2.

2-3. DISASSEMBLY PROCEDURES OF MECHANISM

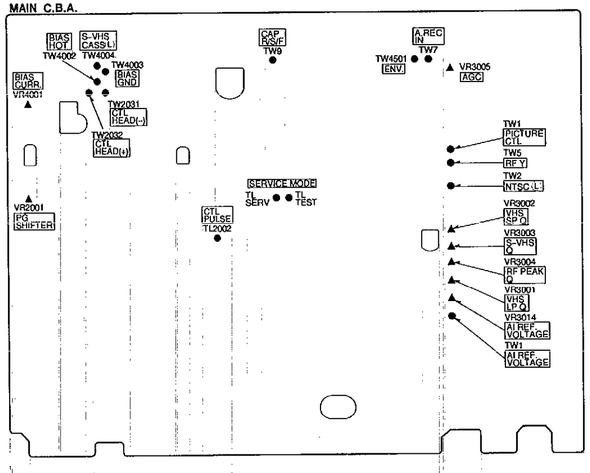
The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

2-4. ASSEMBLY PROCEDURES OF MECHANISM

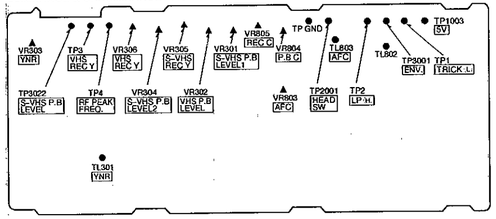
The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

LOCATION OF TEST POINTS & CONTROLS

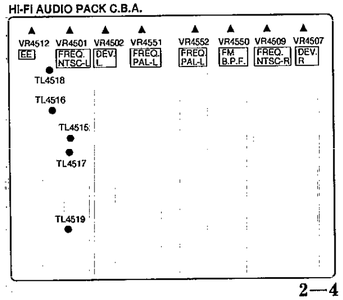
MAIN C.B.A.



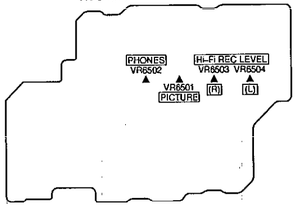
LUMINANCE & CHROMINANCE PACK C.B.A.



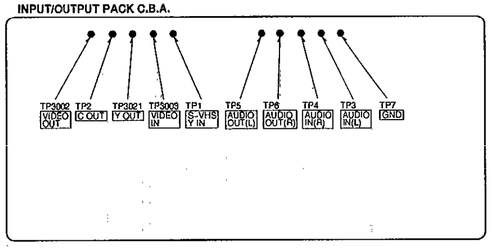
HI-FI AUDIO PACK C.B.A.



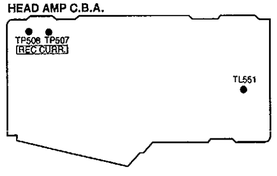
VR C.B.A.



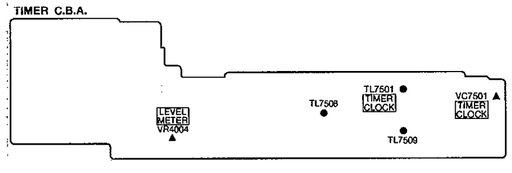
INPUT/OUTPUT PACK C.B.A.



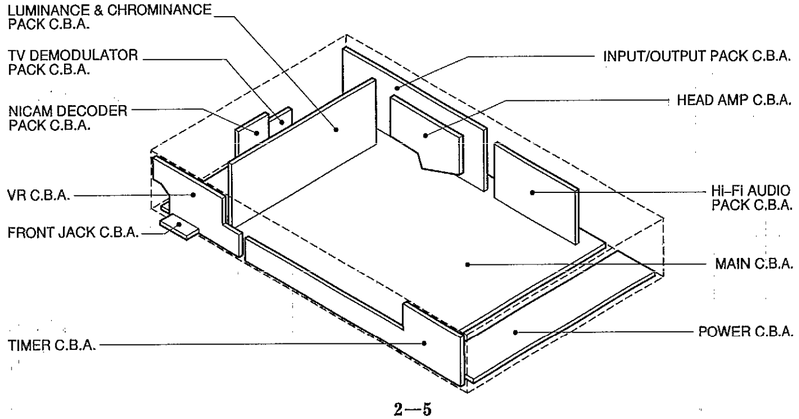
HEAD AMP C.B.A.



TIMER C.B.A.



CIRCUIT BOARD LAYOUT



2-5. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete adjustment procedures required for electric circuits of VHS Video Cassette Recorders.

2-5-1. TEST EQUIPMENT
To perform electrical adjustments following equipment is required.

1. Dual-Trace Oscilloscope. (More than 35MHz)
   Voltage Range: 0.005-5V/div
   Frequency Range: DC-35MHz
   Probes: 10:1 OR 1:1
2. Frequency Counter.
   Frequency Range: 0-10MHz
   Probes: 1:1
3. Universal Counter.
4. Digital Volt Meter. (D.V.M.)
5. Video Sweep Generator.
6. Sine Wave Generator.
7. Video Pattern Generator.
8. VHS Alignment Tape. (VFJ8125H3F)
9. VHS Blank Tape.
10. Monitor.
11. Plastic Tip Driver.
12. DC Power Supply.

2-5-2. PREPARATION
During adjustment, set each selector as follows: when no indication in the procedure.

AI SW.....OFF
PICTURE VR.....CENTRE FIX
HIFI REC LEVEL VR.....CENTRE FIX
16:9 SW.....AUTO
S-VHS SW.....ON
AV OUT SW.....NORMAL
TEST SIG. SW.....OFF
CVC SW.....OFF
PHONES LEVEL VR.....MAX

2-5-3. HOW TO READ ADJUSTMENT PROCEDURES

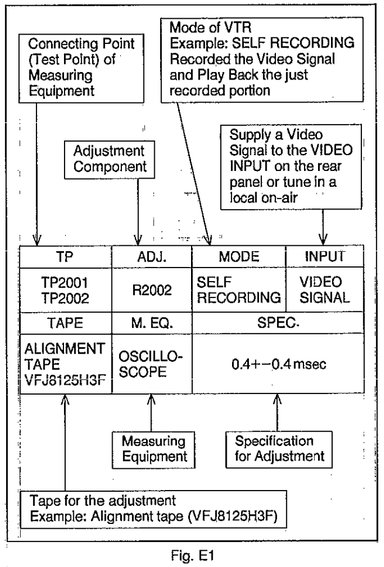


Fig. E1

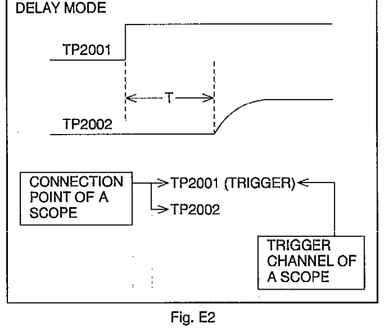


Fig. E2

SERVO SECTION

2-5-4. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP3002	VR2001	PLAYBACK	
TAPE	M. EQ.	SPEC.	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	7.0+−0.5 (H)	

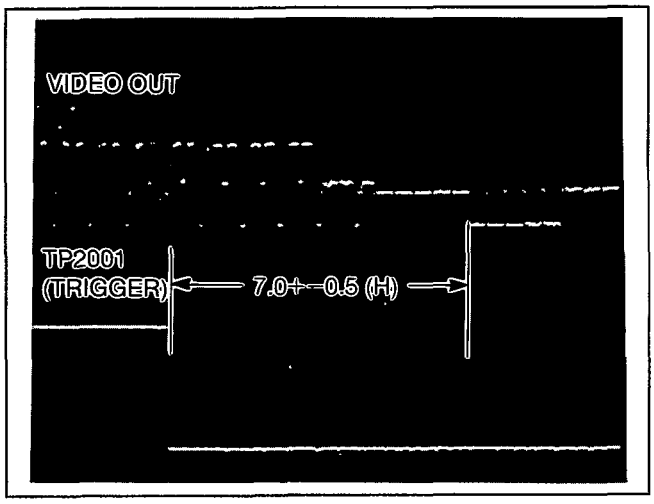


Fig. E3

LUMINANCE & CHROMINANCE SECTION

2-5-5. VIDEO EE LEVEL (AGC) ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002	VR3005	STOP	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
	OSCILLO-SCOPE	2.0+−0.1 (Vp-p)	

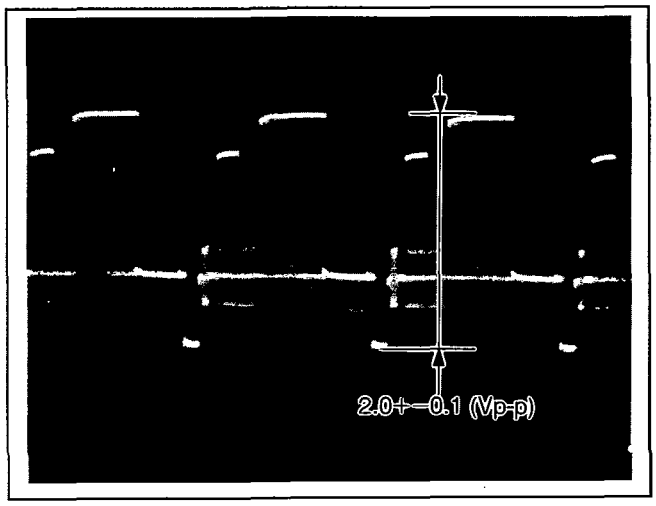


Fig. E4

2-5-6. RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507 (HOT) TP508 (GND)	VR306 (VHS Y) VR305 (S-VHS Y) VR805 (C)	SP RECORDING	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
S-VHS BLANK TAPE	OSCILLO-SCOPE	Y(VHS, S-VHS) : 140+−5 (mVp-p) C: 32+−2 (mVp-p)	

Note: 1. Set the AI SW to OFF position.
2. Set the CVC SW to OFF position.
3. Connect a jumper wire between the pin 96 of IC 6001 and GND (TEST MODE).
4. When adjusting the S-VHS Luminance level, set the S-VHS SW to ON position.
5. When adjusting the VHS Luminance level, set the S-VHS SW to OFF position.
6. Adjust the Luminance level until the peak level of V-SYNC is 140+−5mVp-p (VHS and S-VHS MODE).
7. When adjusting the Chrominance level, Supply +5V DC to TP3 (LUMINANCE & CHROMINANCE PACK) to eliminate Luminance component.
8. Disconnect the jumper wire.

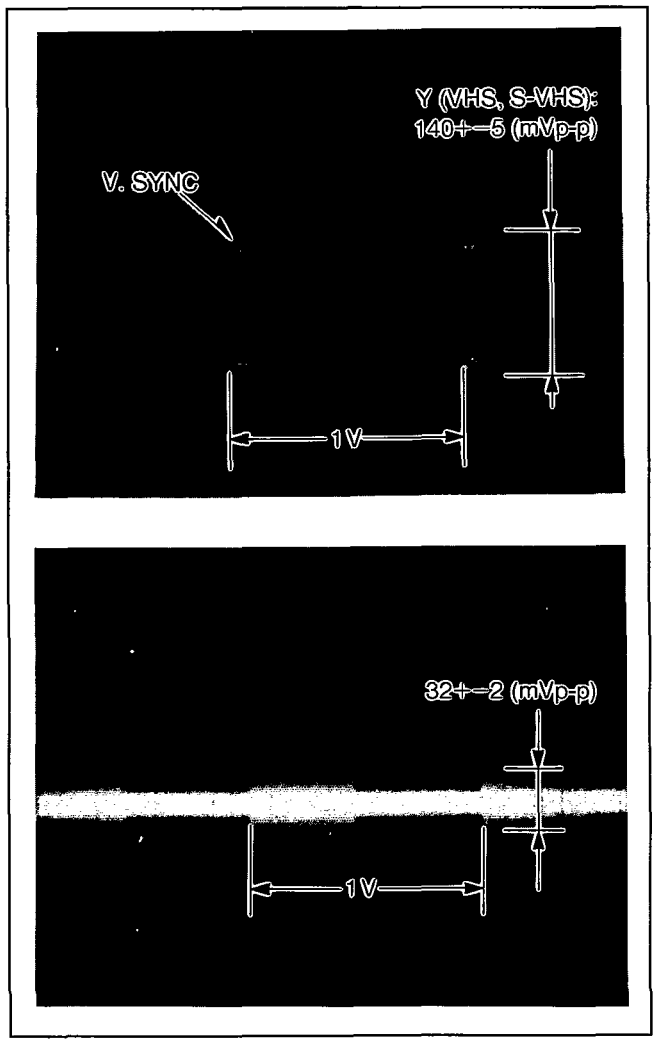


Fig. E5

2-5-7. VHS LUMINANCE PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002	VR302	SP (SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	2.0+−0.2 (Vp-p)	

Note: 1. Set the S-VHS SW to OFF position.
2. Before this adjustment, the RECORDING CURRENT ADJUSTMENT (2-5-6) must be done.

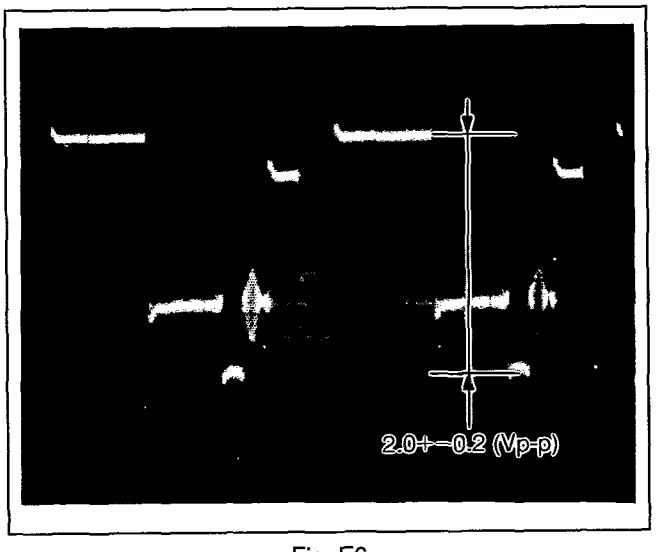


Fig. E6

2-5-8. S-VHS PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3022 (Y1) TP3021 (Y2)	VR301 (Y1) VR304 (Y2)	SP (SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
S-VHS BLANK TAPE	OSCILLO-SCOPE	Y1: 0.4+−0.01(Vp-p) Y2: 2.0+−0.01(Vp-p)	

Note: 1. Set the S-VHS SW to ON position.
2. Before this adjustment, VHS PLAYBACK LEVEL ADJUSTMENT and RECORDING CURRENT ADJUSTMENT must be done.

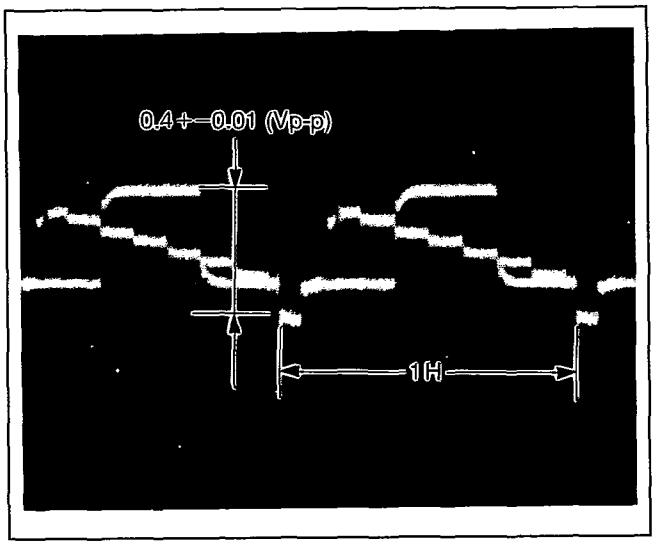


Fig. E7

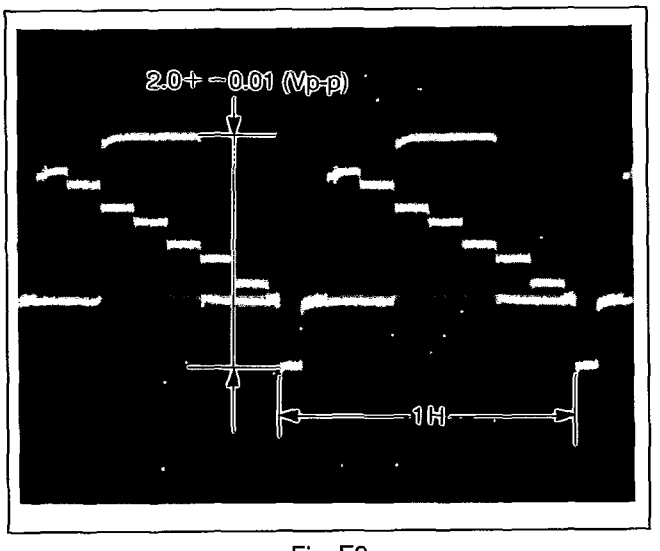


Fig. E8

2-5-9. VHS CHROMINANCE PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002	VR804	SP (SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	1.1+−0.1 (Vp-p)	

Note: 1. Set the S-VHS SW to OFF position.
2. AV1 VIDEO OUT must be 75 Ω terminated.

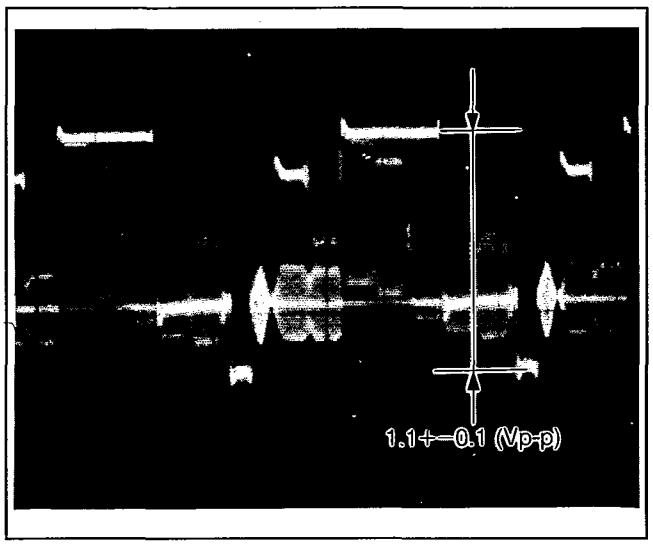


Fig. E9

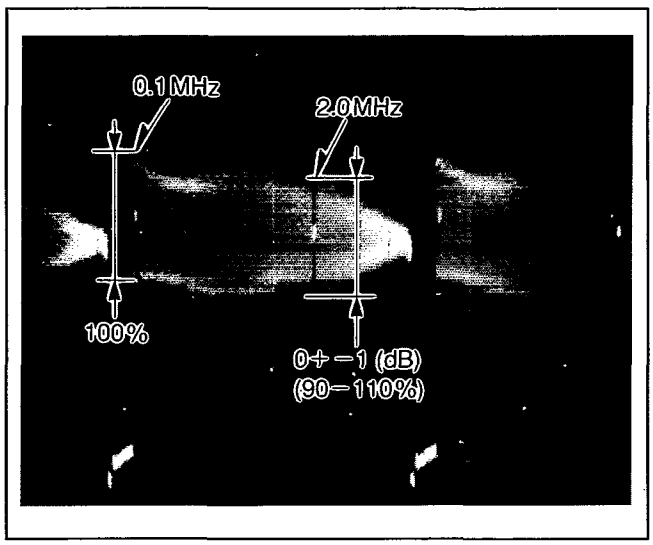
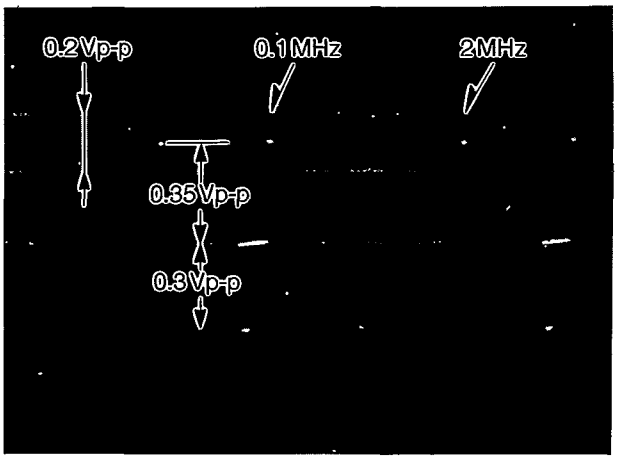


Fig. E11

2-5-10. VHS FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002	VR3002 (SP) VR3001 (LP)	SP/LP (SELF RECORDED) PLAYBACK	VIDEO SWEEP SIGNAL (Shown in Fig. E9)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	SP: 0+−1(dB) (90−110%) LP: 0+−1(dB) (90−110%)	

Note: 1. Set the Video Sweep Signal as shown in Fig. E10.
2. Set the AI and S-VHS SW to OFF position.
3. Set the VIDEO MODE SW to B/W position.



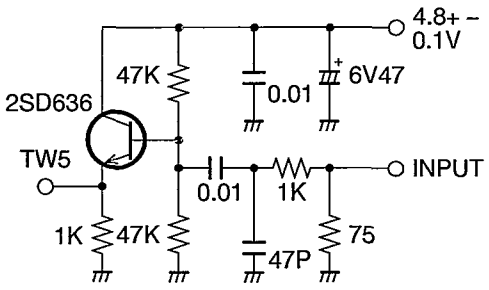
CONDITION: BURST SIGNAL OFF
75 ohm TERMINATED

Fig. E10

2-5-11. RF PEAK FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4	VR3004	STOP	VIDEO SWEEP SIGNAL TW5 (RF Y IN)
TAPE	M. EQ.	SPEC.	
	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	SIGNAL LEVEL AT 7MHz PORTION IS MAXIMUM	

Note: 1. Connect the Service Circuit as shown in Fig. E12.
2. Set VR3003 to centre position.
3. Set the Video Sweep Signal Generator (video signal only) as shown in Fig. E13.
4. Supply set up video sweep signal to TW5 via Service Circuit.
5. Adjust VR3004 until the signal level at 7MHz portion is miximum as shown in Fig. E14.



(Example)
75 ohm: ERDS2TJ750 0.01μ: ECCF1H103ZF
1 Kohm: ERDS2TJ102 47P: ECCF1H470JC
47 Kohm: ERD2TJ473 6V47μ: ECEA0JK470

Fig. E12

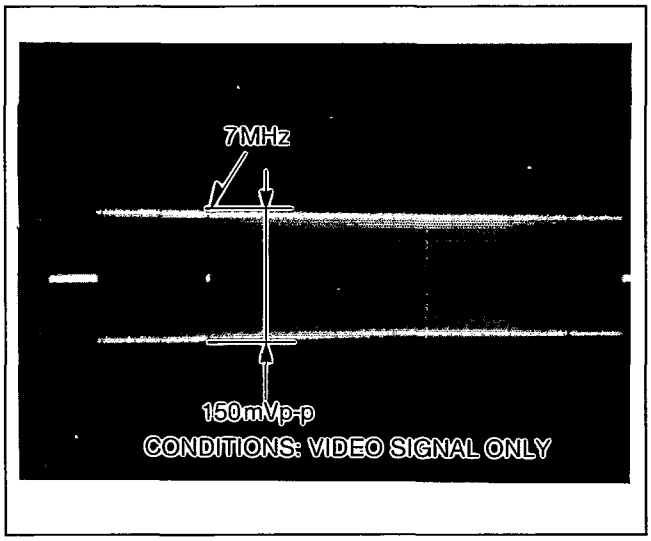


Fig. E13

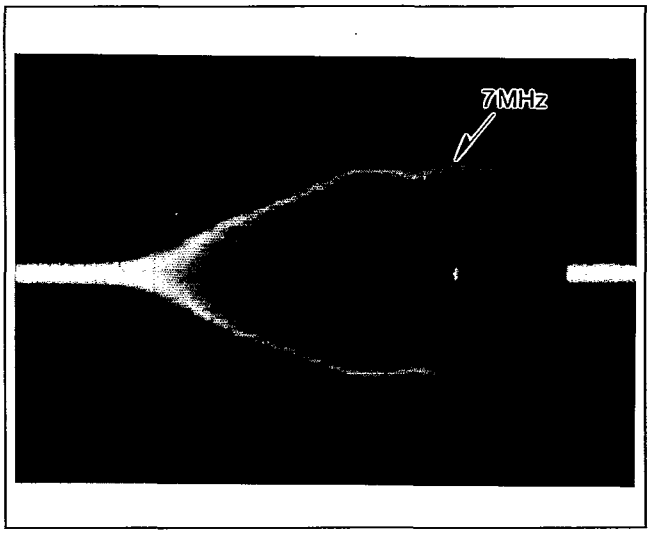
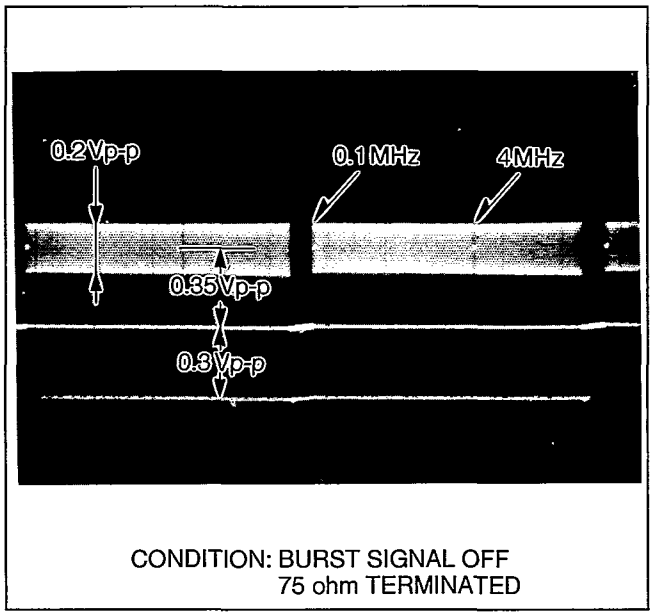


Fig. E14

2-5-12. S-VHS FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3021	VR3003	SP (SELF RECORDED) PLAYBACK	VIDEO SWEEP SIGNAL TP1 (I/O PACK)
TAPE	M. EQ.	SPEC.	
S-VHS BLANK TAPE	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	SP: −4.5+−1(dB) (55−70%)	

Note: 1. Before this adjustment, RF PEAK ADJUSTMENT *must be done.*
2. Set the Video Sweep Signal as shown in Fig. E15.
3. Set the AI SW to OFF position.



CONDITION: BURST SIGNAL OFF
75 ohm TERMINATED

Fig. E15

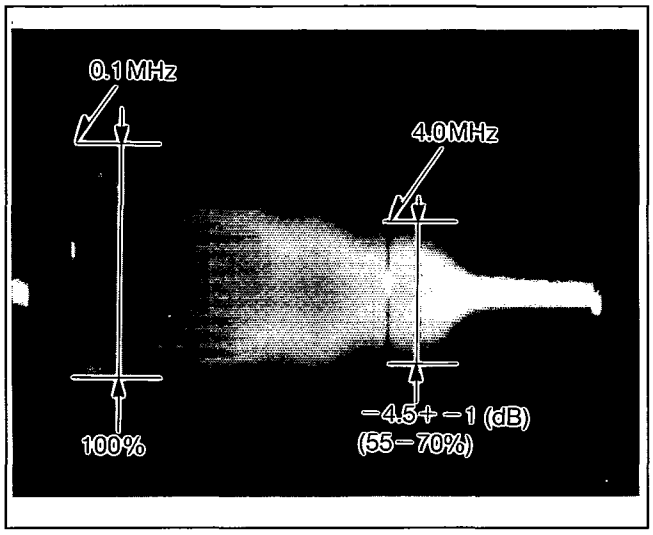


Fig. E16

2-5-13. AI REF. VOLTAGE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TW1	VR3014	SP (SELF RECORDED) PLAYBACK	PAL COLOUR BAR (TP3003)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	D.V.M	2.5+−0.23 (V)	

Note: 1. Set the S-VHS SW to OFF position.
2. Set the CVC SW to ON position.

2-5-14. YNR ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC301-34 (TL301)	VR303	STOP	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	WAVEFORM IS MINIMUM	

Note: 1. Connect a capacitor (1500pF) between IC301-34 and GND.

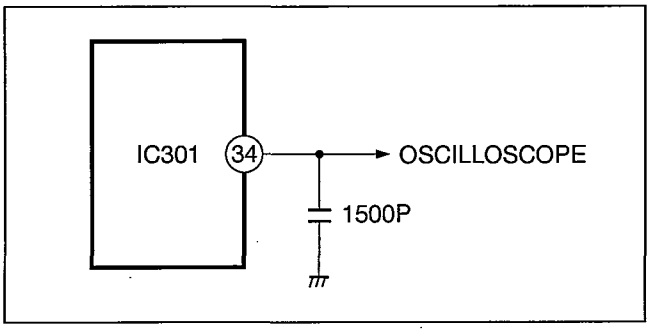


Fig. E17

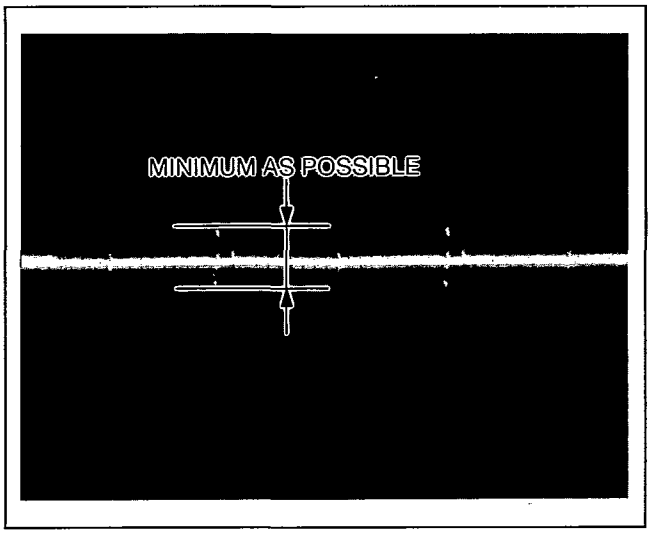


Fig. E18

2-5-15. ARTIFICIAL NTSC FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TL803	VR803	STOP	
TAPE	M. EQ.	SPEC.	
	FREQUENCY COUNTER/ SINEWAVE GENERATOR	15735+−100 (Hz)	

Note: 1. Supply +5V DC to TL802.
2. Turn VR803 to maximum frequency, then adjust VR803 until the specification.

AUDIO SECTION

2-5-16. BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (HOT) TP4003 (GND)	VR4001	RECORDING	
TAPE	M. EQ.	SPEC.	
BLANK TAPE	V.T.V.M.	2.5+−0.1 (mVrms)	

Note: 1. Set the S-VHS SW to OFF position.

2-5-17. HIFI E-E LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUDIO OUT (L)	VR4512	STOP	SINEWAVE 1KHz/−6dB (AUDIO IN (L))
TAPE	M. EQ.	SPEC.	
	V.T.V.M./ SINEWAVE GENERATOR	−8+−0.5 (dB)	

Note: 1. Select the STEREO mode by Remote Controller. (Both Left and Right indicators on the FIP are lit.)
2. Set the HIFI REC VR to FIX position.

2-5-18. CARRIER FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4501-34 (L) IC4501-47 (R)	VR4501 (NTSC-L) VR4509 (NTSC-R) VR4551 (PAL-L) VR4552 (PAL-R)	SP RECORDING	
TAPE	M. EQ.	SPEC.	
BLANK TAPE	FREQUENCY COUNTER	NTSC-L: 1.3+−0.003 (MHz) NTSC-R: 1.7+−0.003 (MHz) PAL-L: 1.4+−0.003 (MHz) PAL-R: 1.8+−0.003 (MHz)	

Note: 1. When adjusting the NTSC mode, connect a jumper wire between TW 2 (on the Main C.B.A.) and GND.
2. When adjusting the PAL mode, disconnect a jumper wire.

2-5-19. DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
BETWEEN VR4502 and R4511 (L) BETWEEN VR4507 and R4561 (R)	VR4502 (L) VR4507 (R)	SP RECORDING	SINEWAVE 1KHz/−6dB (AV1 IN)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	V.T.V.M./ SINEWAVE GENERATOR	110 (mVrms)	

Note: 1. Before recording the sinewave, adjust the HIFI REC VR until the audio output level of AV1 is 400mVrms.

2-5-20. FM B.P.F. ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4501-33 (L) IC4501-48 (R)	VR4550	PLAYBACK	SINEWAVE 1.608MHz/ 400mVp-p (PS4003-8)
TAPE	M. EQ.	SPEC.	
NTSC RECORDED TAPE	V.T.V.M./ SINEWAVE GENERATOR	PAL: Lch (IC4501-33)= Rch (IC4501-48) NTSC: 0+−2.0 (dB)	

Note: 1. Disconnect P501 (from MAIN C.B.A. to HEAD AMP PACK C.B.A.).
2. Connect a jumper wire between PS4003-16 and GND to set the PAL mode.
3. The GND lead of oscilloscope must be connected to GND on HIFI AUDIO PACK C.B.A. to reduce the noise.
4. Supply the sinewave signal (1.608MHz/400mVp-p) to PS4003-8.
5. Adjust the level of the difference between L CH and R CH is equal.
6. Connect a jumper wire between TL47 (on the Main C.B.A.) and GND to set the NTSC mode.
7. Adjust the level of the difference between L CH and R CH is 0+−2.0 dB.
8. After this adjustment, connect P501 and disconnect the jumper wire.

2-5-21. LEVEL METER SENSITIVITY ADJUSTMENT

TP	ADJ.	MODE	INPUT
LEVEL METER ON THE FIP	VR4004	STOP	SINEWAVE 1KHz/−6dB (AUDIO IN (L), (R))
TAPE	M. EQ.	SPEC.	
	V.T.V.M./ SINEWAVE GENERATOR	0dB INDICATOR ON THE AUDIO LEVEL METER JUST LIGHTS UP	

Note: 1. Select the STEREO mode.
(Both Left and Right indicators on the FIP are lit.)
2. Before recording the sinewave, adjust the HIFI REC VR until the signal level at Audio Output Terminal is 400mVrms.

TIMER SECTION

2-5-22. TIMER REFERENCE CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TL7501	VC7501	STOP	
TAPE	M. EQ.	SPEC.	
	UNIVERSAL COUNTER	7812.5+−0.015 (μsec)	

3-1. ABBREVIATIONS

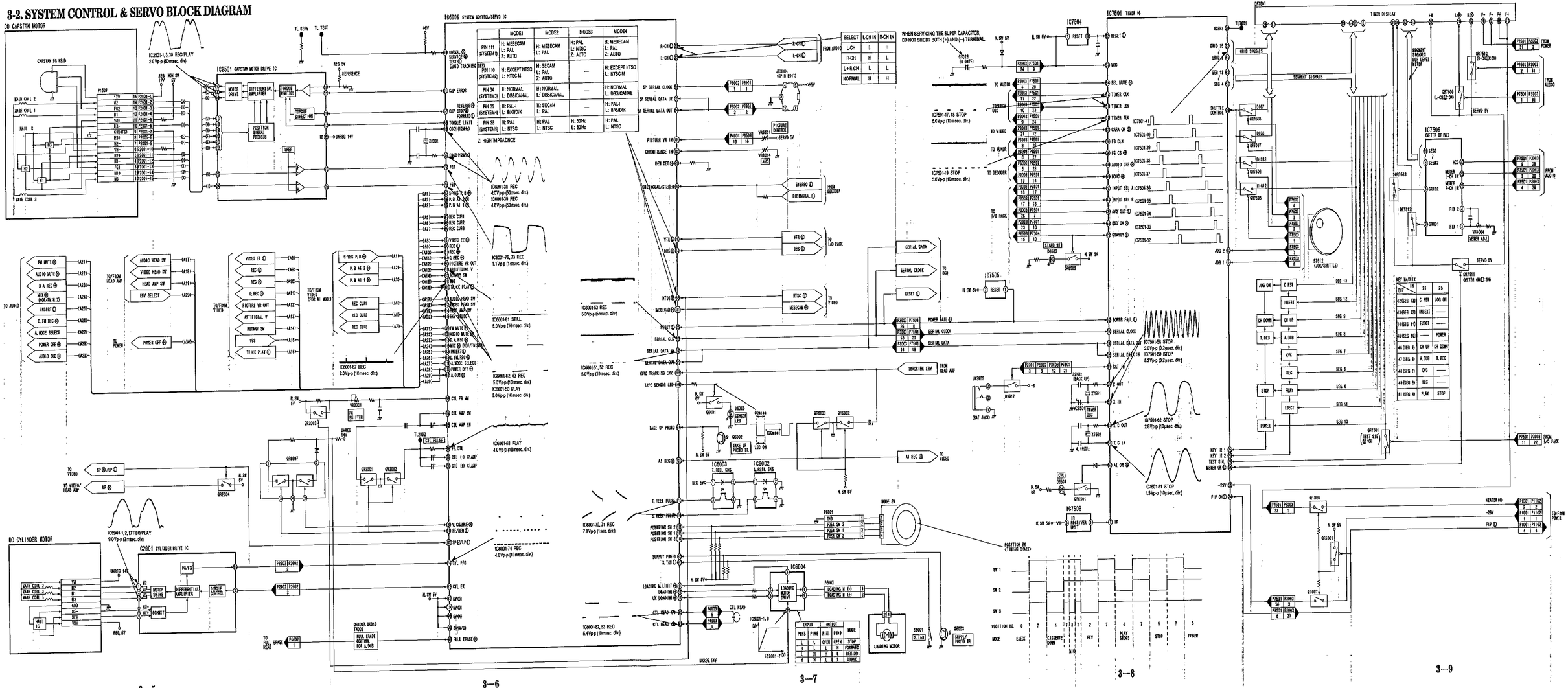
443NT [L]	4.43 NTSC Ⓛ	BIL. [H]	BILINGUAL Ⓗ
A. COMP	AUDIO COMPONENT SIGNAL	BIL/M1 [L]	BILINGUAL Ⓛ
A. COMPO	AUDIO COMPONENT SIGNAL	BS CLOCK	BS CLOCK
A. D.P [L]	AUDIO DUBBING PAUSE Ⓛ	BS DATA	BS DATA
A. D/L [L]	AUDIO DUBBING PAUSE Ⓛ	BS LCH IN	BS L CHANNEL INPUT
A. DEF [S]	AUDIO DEFEAT	BS MIX [H]	BS MIX Ⓗ
A. DEF [S] [L]	AUDIO DEFEAT	BS MON [H]	BS MONITOR Ⓗ
A. DUB P [L]	AUDIO DUBBING PAUSE Ⓛ	BS MONI [H]	BS MONITOR Ⓗ
A. DUB [H]	AUDIO DUBBING Ⓗ	BS RCH IN	BS R CHANNEL INPUT
A. ERASE	AUDIO ERASE	BS VIDEO	BS VIDEO SIGNAL
A. H. SW	AUDIO HEAD SWITCHING PULSE	BS VIDEO/BS1	BS VIDEO SIGNAL
A. HEAD [R]	AUDIO HEAD (REC)	BS [H]	BS Ⓗ
A. HEAD [W]	AUDIO HEAD (PLAY)	BS. LEVEL	BS LEVEL
A. IN [L]	AUDIO INPUT (L)	BS. M [H]	BS MONITOR Ⓗ
A. IN [R]	AUDIO INPUT (R)	BS/VTR [H]	BS/VTR Ⓗ
A. MUT [H]	AUDIO MUTE Ⓗ	BUS CLK	BUS CLOCK
A. MUTE [H]	AUDIO MUTE Ⓗ	BUS LSN	BUS LISTEN
A. OUT [L]	AUDIO OUTPUT (L)	BUS TLK	BUS TALK
A. OUT [R]	AUDIO OUTPUT (R)	BUZZER	BUZZER
A. RF OUT	AUDIO RF SIGNAL OUTPUT	CAP EC	CAPSTAN TORQUE CONTROL
A/VS/S. DATA	AV SW/SERIAL DATA	CAP M GND	CAPSTAN MOTOR GND
AC ONLINE	AC ONLINE	CAP. ET	CAPSTAN TORQUE CONTROL
AC. O/EE. H	AC ONLINE/EE Ⓗ	CAP. FG1	CAPSTAN FG1 PULSE
AFC S C	AFC S CURVE	CAP. FG2	CAPSTAN FG2 PULSE
AFC [S]	AFC S CURVE	CAS. SW	CASSETTE SW
AFC. DEF	AFC DEFEAT	CCN	PLAYBACK CONTROL SIGNAL (−)
ARFC OUT	AUDIO RF SIGNAL OUTPUT	CCP	PLAYBACK CONTROL SIGNAL (+)
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL	CHM	CONTROL SIGNAL (+)
ART. V. MM	ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI	CHP	CONTROL SIGNAL (−)
		CINEM [L]	CINEMA Ⓛ
ART. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL Ⓗ/NORMAL	CINEMA [L]	CINEMA Ⓛ
		CINEMA/MIX	CINEMA/MIX
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL	CKL	RATCH LOCK
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE	CKS	SHIFT LOCK
AUDIO IN [L]	AUDIO INPUT (L)	CL	CLOCK
AUDIO IN [R]	AUDIO INPUT (R)	CLK	CLOCK
AUDIO OUT [L]	AUDIO OUTPUT (L)	CLK (C.G)	CLOCK
AUDIO OUT [R]	AUDIO OUTPUT (R)	CLOCK. IN	CLOCK INPUT
AUDIO SELECT [H]	AUDIO SELECT Ⓗ	CLP	CLAMP
AUDIO. L	AUDIO (L)	COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
AUDIO. R	AUDIO (R)	COLOR [H]	COLOUR Ⓗ
AV CNT	AV CONTROL	CONV	CONVERTOR
AV CTL	AV CONTROL	CS	CHIP SELECT
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK	CTL GND	CONTROL GND
AV. C.M.	AV CONTROL MODE	CTL HEAD [+]	CONTROL HEAD (+)
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)	CTL HEAD [−]	CONTROL HEAD (−)
AVSW/METER. L	AV SW/LEVEL METER (L)	CTL [+]	CONTROL HEAD (+)
B MODE. H	B MODE Ⓗ	CTL [−]	CONTROL HEAD (−)
B.G.P	BURST GATE PULSE	CUE BIAS	CUE BIAS
BACKUP 5V	BACK UP 5V	CURRENT LIM	CURRENT LIMMITER
BAND. U.E.	BAND U	CYL ET	CYLINDER TORQUE CONTROL
BANDVL. D	BAND VL	CYL GND	CYLINDER GND
BI/MI [L]	BILINGUAL/MIX Ⓛ	D.F.M. REC [H]	DELAIED FM RECORDING Ⓗ
BIL	BILINGUAL	D. FM REC [L]	DELAIED FM RECORDING Ⓛ
BIL [L]	BILINGUAL Ⓛ	D. GND	DIGITAL GND

D. REC [H]	DELAYED RECORDING Ⓗ
D4/S. LED	D4/STILL LED
D4/STILLED	D4/STILL LED
DAC [CLK]	TUNER DAC (CLOCK)
DAC/FSCS	TUNER DAC/FS CHIP SELECT
DAREC [H]	DELAYED AUDIO RECORDING Ⓗ
DATA	DATA
DECODER [L]	DECODER (L)
DECODER [R]	DECODER (R)
DEW	DEW
DEW SNS	DEW SENSOR
DFMRE [H]	DELAYED FM AUDIO RECORDING Ⓗ
E. REC 5V	EXCEPT RECORDING 5V
EC	ERR0R TORQUE CONTROL
ECR	ERROR TORQUE CONTROL REFERENCE VOLTAGE
EDT TRIG [L]	EDIT TRIGGER Ⓛ
EDIT [H]	EDIT Ⓗ
EE [H]	EE Ⓗ
EE [H]/INS [M]	EE Ⓗ/INSERT Ⓜ
EE. VV. TR	EE/VV/TRICK PLAY
EJECT. PO	EJECT POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK
ENV. SEL	ENVELOPE SELECT
ENVE. OUT	ENVELOPE OUTPUT
ENVE. SEL	ENVELOPE SELECT
ENV SELECT	ENVELOPE SELECT
EP [H]	LP Ⓗ
EP/LP [H]	LP Ⓗ
EP/LP/SP	LP/SP
EP/SS [H]	LP/SLOW/STILL/STOP Ⓗ
EPROMCS	EPROM CHIP SELECT
EX. REC 5V	EXCEPT RECORDING 5V
FF/REW [L]	FIRST FORWARD/REWIND Ⓛ
FG1 IN	FG1 PULSE INPUT
FG2 IN	FG2 PULSE INPUT
FILTER ADJUSTMEN	FILTER ADJUSTMENT
FLY ERASE [H]	FLYING ERASE HEAD ON Ⓗ
FLY ON [H]	FLYING ERASE E HEAD ON Ⓗ
FLY. E [H]	FLYING ERASE HEAD ON Ⓗ
FM MUT [H]	FM AUDIO MUTE Ⓗ
FM MUTE [H]	FM AUDIO MUTE Ⓗ
FM OUT [L]	FM OUTPUT (L)
FM OUT [R]	FM OUTPUT (R)
FM PACK OUT [L]	FM PACK OUTPUT (L)
FM PACK OUT [R]	FM PACK OUTPUT (R)
FM/BS SEL [L]	FM/BS SELECT (L)
FM/BS SEL [R]	FM/BS SELECT (R)
FS. CLK	FS CLOCK
FUL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E. 12V	FULL ERASE 12V
GND [A]	GND (ANALOGUE)
GND [TU]	GND (TUNER)
GND/N. SW. 12V	GND/NON SW 12V
H. SYNC	HORIZONTAL SYNC
H. AMP. SW	HEAD AMP SW PULSE
H. P <R>	HEAD PHONE (R)
H. P <L>	HEAD PHONE (L)
H. P GND	HEAD PHONE GND
H. P OUT [L]	HEAD PHONE OUTPUT (L)
H. P OUT [R]	HEAD PHONE OUTPUT (R)
H. SW	HEAD SW PULSE
HEAD PHONE [L]	HEAD PHONE (L)
HEAD PHONE [R]	HEAD PHONE (R)
HEAD SW	HEAD SW
HEATER [+]	HEATER (+)
HEATER [−]	HEATER (−)
HSS	HORIZONTAL SYNC SIGNAL
HTR [+]	HEATER (+)
HTR [−]	HEATER (−)
I RFE	REFERENCE CURRENT
ICL	CONTROL AGC CIRCUIT
IF	INTERMEDIATE FREQUENCY
IN SELA1	INPUT SELECT A1 POSITION
IN SELA2	INPUT SELECT A2 POSITION
IN SELA3	INPUT SELECT A3 POSITION
INS L/R [L]	INSERT Lch/Rch Ⓛ
INS. [H]	INSERT Ⓗ
INSEL A1	INPUT SELECT A1 POSITION
INSEL A2	INPUT SELECT A2 POSITION
INSERT	INSERT
INSERT [H]	INSERT Ⓗ
IO CS	INPUT/OUTPUT CHIP SELECT
JOG1	JOG1
JOG S3 LED/FOWRD	JOG LED/FORWARD LED
JOG/F. LED	JOG LED/FORWARD LED
JSB [H]	JSB Ⓗ
JST. CLCK	JUST CLOCK
JST. CLK	JUST CLOCK
JST. CLOCK	JUST CLOCK
L. OUT	Lch OUTPUT
L. CH [H]	Lch Ⓗ
L. CH [L]	Lch Ⓛ
LED (MAIN)	LED (MAIN)
LED (STEREO)	LED (STEREO)
LED (SUB)	LED (SUB)
LED CKL	LED SERIAL CLOCK
LED CKS	LED SERIAL CLOCK
LED DATA	LED SERIAL DATA
LINE IN 1 [L]	LINE INPUT 1 (L)
LINE IN 1 [R]	LINE INPUT 1 (R)
LINE IN 2 [L]	LINE INPUT 2 (L)
LINE IN 2 [R]	LINE INPUT 2 (R)
LINE IN V	LINE INPUT VIDEO
LINE IN [L]	LINE INPUT (L)
LINE IN [R]	LINE INPUT (R)
LINE OUT [L]	LINE OUTPUT (L)
LINE OUT [R]	LINE OUTPUT (R)
LP [H]	LP Ⓗ

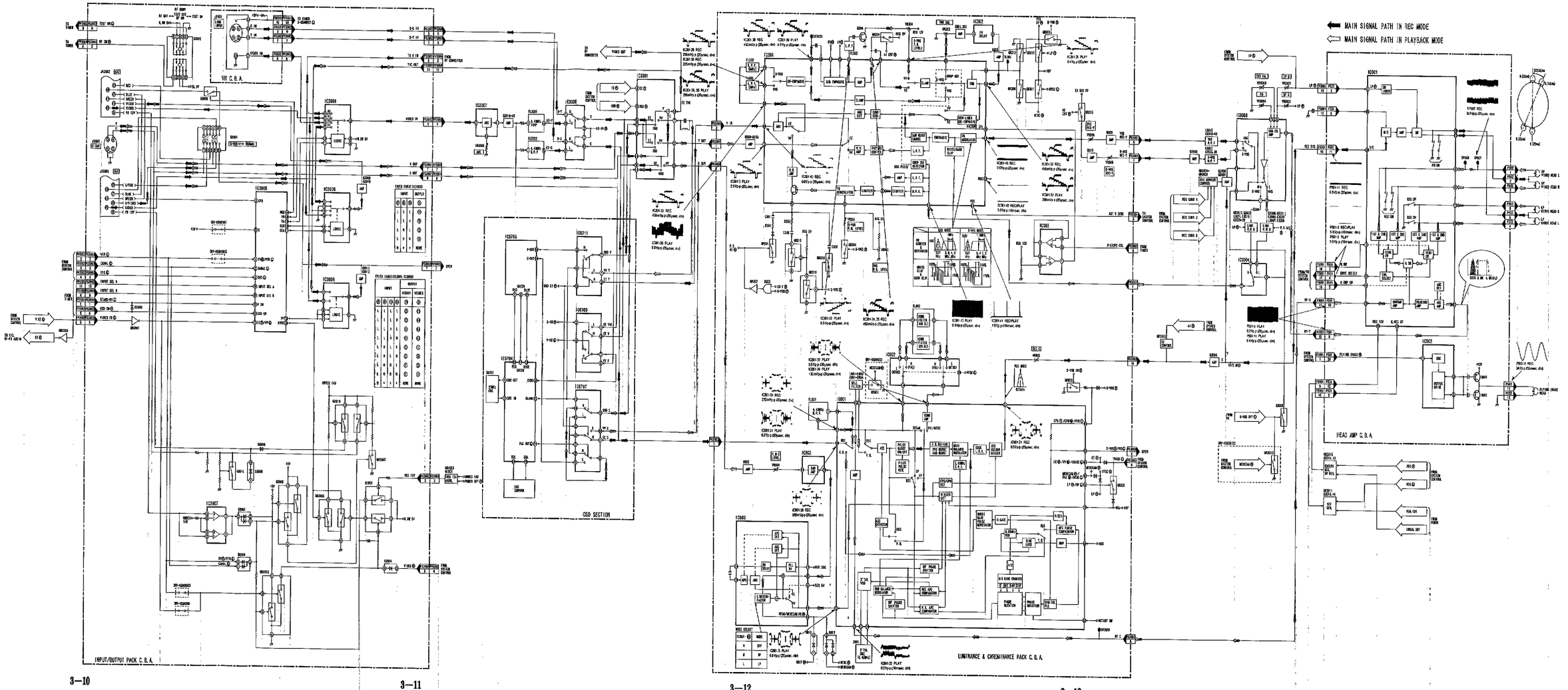
LPTRI [L]	LP TRICK PLAY Ⓛ	P. OFF [L]	POWER OFF Ⓛ
Lch/A. DUB	Lch/AUDIO DUBBING	PAL [H]	PAL Ⓗ
M GND	MOTOR GND	PAL [L]/NTSC [H]	PAL Ⓛ/NTSC Ⓗ
M REG	MOTOR REGULATOR	PB ADJ OUT	PLAYBACK ADJUST OUTPUT
MAIN OUT	MAIN OUTPUT	PB OUT	PLAYBACK OUTPUT
MAIN [L]	MAIN Ⓛ	PB. H	PLAYBACK Ⓗ
MAIN/MONO	MAIN/MONAURAL	PFG	PG/FG
MAX IN	MAXIMAM INPUT	PHOTSN +B	PHOTO SENSOR +B
MES [H]	MESECAM Ⓗ	PICT. CNT	PICTURE CONTROL
MESE [H]	MESECAM Ⓗ	PLAY LED/RVS LED	PLAY LED/REVERSE LED
MESE [L]	MESECAM Ⓛ	PLAY. PO	PLAY POSITION
METER 5V	LEVEL METER 5V	PLAY/R. LED	PLAY LED/REVERSE LED
METER [L]	LEVEL METER (L)	PLY/DEW	PLAY/DEW Ⓗ
METER [R]	LEVEL METER (R)	POWER OFF [L]	POWER OFF Ⓛ
METER. L/AVS	LEVEL METER (L)	PREROLL [H]	PREROLL Ⓗ
METER. R/AVC	LEVEL METER (R)	PWRFAIL	POWER FAILURE DETECT
MI/BI [L]	MIX Ⓗ/BILIGUAL	R. CH [H]	Rch Ⓗ
MIC GND	MIC GND	R. CH [L]	Rch Ⓛ
MIC IN	MIC INPUT	R. ST	RESET
MIC IN [L]	MIC INPUT (L)	R/S/F	REVERSE Ⓗ/STOP Ⓜ/FORWARD Ⓛ
MIC IN [R]	MIC INPUT (R)	RCH [H]	Rch Ⓗ
MIC [H]	MIC Ⓗ	REC 12V	RECORDING 12V
MIX [H]	MIX Ⓗ	REC CHROMA	RECORDING CHROMINANCE SIGNAL
MIX [H]/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ	REC H	RECORDING Ⓗ
MIX/CINE	MIX Ⓗ/CINEMA SOUND Ⓛ	REC IN	RECORDING INPUT
MIX/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ	REC OUT [L]	RECORDING OUTPUT Ⓛ
MN. H/M. L	MONAURAL Ⓗ/MAIN Ⓛ	REC START	RECORDING START
MN. H/MAI. L	MONAURAL Ⓗ/MAIN Ⓛ	REC VR [C]	RECORDING VOLUME (COMMON)
MN2/MES. L	MONAURAL 2/MESECAM Ⓛ	REC VR [L]	RECORDING VOLUME (L)
MODE SEL	AUDIO MODE SELECT	REC VR [R]	RECORDING VOLUME (R)
MODE SW	AUDIO MODE SW	REC Y	RECORDING LUMINANCE SIGNAL
MODE. S. IN	AUDIO MODE SELECT INPUT	REC [H]	RECORDING Ⓗ
MODE. S. OUT	AUDIO MODE SELECT OUTPUT	REC. C	RECORDING CHROMINANCE SIGNAL
MONO [H]	MONAURAL Ⓗ	REC. Y	RECORDING LUMINANCE SIGNAL
MONO [H]/MAIN [L]	MONAURAL Ⓗ/MAIN Ⓛ	REC/EE CTL	RECORDING/EE CONTROL
MONO2 [L]	MONAURAL 2	REEL-T	REEL PULSE (TAKE-UP)
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM Ⓛ)	REEL-S	REEL PULSE (SUPPLY)
MOTOR GND	MOTOR GND	REGULATOR FILTER	REGULATOR FILTER
MUTE	MUTE	RESET	RESET
N. A. REC [L]	NORMAL AUDIO RECORDING	REV M F/R	REVIEW MOTOR FORWARD/REVERSE
N. SW 12V	NON SW 12V		
N. SW. 5. DET	NON SW 5V DETECT	REV M V1	REVIEW MOTOR V1
NICAM	NICAM	REV M V2	REVIEW MOTOR V2
NICAM [L]	NICAM Ⓛ	REV MOTOR F/R	REVIEW MOTOR FORWARD/REVERSE
NOL [H]	PAL Ⓗ/4.43 NTSC Ⓜ/3.58 NTSC Ⓛ		
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY Ⓗ	REV MOTOR V1	REVIEW MORROR V1
NORMAL [H]	NORMAL Ⓗ	REV MOTOR V2	REVIEW MOTOR V2
NR BIAS	NR BIAS	REV MOTOR [+]	REVIEW MOTOR (+)
NTSC [L]	NTSC Ⓛ	REV MOTOR [−]	REVIEW MOTOR (−)
OCH	CONTROL AGC CIRCUIT	REV. M. GND	REVIEW MOTOR GND
OUT	OUTPUT	RF. CHROMA	RF CHROMINANCE SIGNAL
P-OFF [H]	POWER OFF Ⓗ	RF OUT	RF OUTPUT
P-OFF [L]	POWER OFF Ⓛ	RF Y	RF LUMINANCE SIGNAL
P. FAIL	POWER FAILURE DETECT	RF. Y. IN	RF LUMINANCE SIGNAL INPUT
P. OFF [H]	POWER OFF Ⓗ	RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT

ROTAR. SW	ROTARY SW
ROTARY	ROTARY SW
RST	RESET
RST [L]	RESET Ⓛ
Rch/INST	Rch/INSERT
S IN	SERIAL DATA INPUT
S OUT	SERIAL DATA OUTPUT
S-PHOTO	SUPPLY PHOTO TRANSISTOR
S-RL. PLS	SUPPLY REEL PULSE
S. CLK	SERIAL CLOCK
S. CLK/AV	SERIAL CLOCK/AV
S. DATA	SERIAL DATA
S. DATA/A	SERIAL DATA
S. PHOTO	SUPPLY PHOTO TRANSISTOR
S. TAB [L]	SAFETY TAB SW ON Ⓛ
S/P/N	SECAM/PAL/NTSC
SC IN	SERIAL CLOCK INPUT
SC OUT	SERIAL CLOCK OUTPUT
SCK SELECT	SERIAL CLOCK SELECT
SEL OUT [L]	SELECT OUTPUT (L)
SEL OUT [R]	SELECT OUTPUT (R)
SHUTTLE 1	SHUTTLE 1
SIF	SOUND INTERMEDIATE FREQUENCY
SLMUT [H]	INPUT SELECT MUTE Ⓗ
SLNID [+]	SOLENOID (+)
SLNID [−]	SOLENOID (−)
SLW TR. MM	SLOW TRACKING MONO MULTI
SLW TR. REF	SLOW TRACKING REFERENCE VOLTAGE
SNS. GND	SENSOR GND
SOFT [H]	SOFT TAPE PLAY Ⓗ
SOFT [H]/NORMAL	SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ
SOLENOID ON [L]	SOLENOID ON Ⓛ
SP [H]	SP Ⓗ
SP/L/SLP	SP/LP
SSS [L]	SLOW/STILL/STOP
STEREO LED	STEREO LED
STEREO [H]	STEREO Ⓗ
STEREO [L]	STEREO Ⓛ
STOP. PO	STOP POSITION
STOP/5V	STOP POSITION/5V
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT
STOP1/PAL:ST	STOP1 POSITION/PAL
STOP2. PO	STOP 2 POSITION
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW
STREO [H]	STEREO Ⓗ
SUB BIAS	SUB BIAS
SUB. SW	SUB SW
SVHS CAS [L]	S-VHS CASSETTE Ⓛ
SW. 5. DET	SW 5V DETECT
SYNC [L]	SYNC Ⓛ
SYSCON 5V	SYSTEM CONTROL 5V
SYSTEM	SYSTEM SW
T-PHOTO	TAKE-UP PHOTO TRANSISTOR
T-RL. PLS	TAKE-UP REEL PULSE
T. BUSCLK	TIMER BUS CLOCK
T. BUSLSN	TIMER BUS LISTEN
T. BUSTLK	TIMER BUS TALK
T. END [L]	TAPE END Ⓛ
T. PHOTO	TAKE-UP PHOTO TRANSISTOR
TAPE END [L]	TAPE END Ⓛ
TAPE END [L]/CAM	TAPE END Ⓛ/CAMERA PAUSE
TEST	TEST MODE
TPZ	TRAPEZOIDAL WAVE CIRCUIT
TRIC [L]	TRIC PLAY Ⓛ
TRICK [L]	TRIC PLAY Ⓛ
TRK. ENV	AUTO TRACKING ENVELOPE DETECT
TU. AUDIO	TUNER AUDIO
TU. GND	TUNER GND
TU. V. IN	TUNER VIDEO SIGNAL INPUT
TU. VIDEO	TUNER VIDEO
TUN NOR IN	TUNER NORMAL INPUT
TUN R	TUNER AUDIO (R)
TUN. AUDIO IN	TUNER AUDIO INPUT
TUNER 12V	TUNER 12V
TUNER L	TUNER AUDIO (L)
TUNER V IN	TUNER VIDEO SIGNAL INPUT
TUNER [L]	TUNER AUDIO (L)
TUNER [N]	TUNER AUDIO (NORMAL)
TUNER [R]	TUNER AUDIO (R)
TUNER. 12	TUNER 12V
TUOFF [H]	TUNER OFF Ⓗ
TV. AUDIO	TV AUDIO
TV/VTR	TV/VTR
TXTON [L]	TEXT ON Ⓛ
U. REG45V	UNREGULATOR 45V
UNREG	UNREGULATOR
UNREG19V	UNREGULATOR 19V
V. REF	REFERENCE VOLTAGE
V. EE [H]	VIDEO EE Ⓗ
V. EE [L]	VIDEO EE Ⓛ
VCO REF	RERERENCE OSCILLATER
VD. IN	VIDEO SIGNAL INPUT
VD. OUT	VIDEO SIGNAL OUTPUT
VIDEO EE [L]	VIDEO EE Ⓛ
VIDEO IN	VIDEO SIGNAL INPUT
VIDEO OUT	VIDEO SIGNAL OUTPUT
VM	MOTOR VOLTAGE
VM DOWN [L]	MOTOR VOLTAGE DOWN Ⓛ
VSS	VERTICAL SYNC SIGNAL
VTR [H]	VTR Ⓗ
VTR. 12V	VTR 12V
X IN	OSCILLATOR INPUT
X OUT	OSCILLATOR OUTPUT

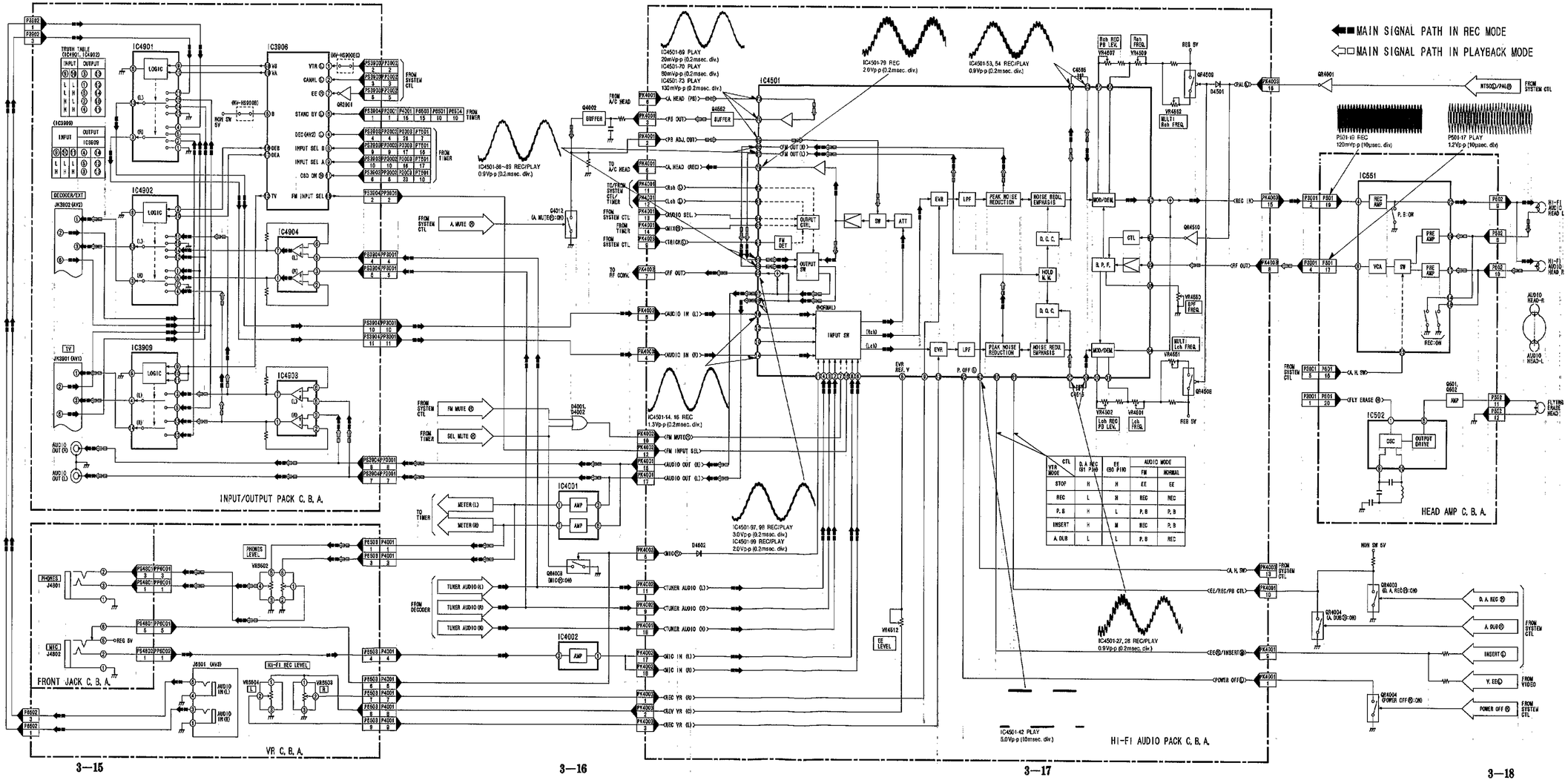
3-2. SYSTEM CONTROL & SERVO BLOCK DIAGRAM



3-3. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

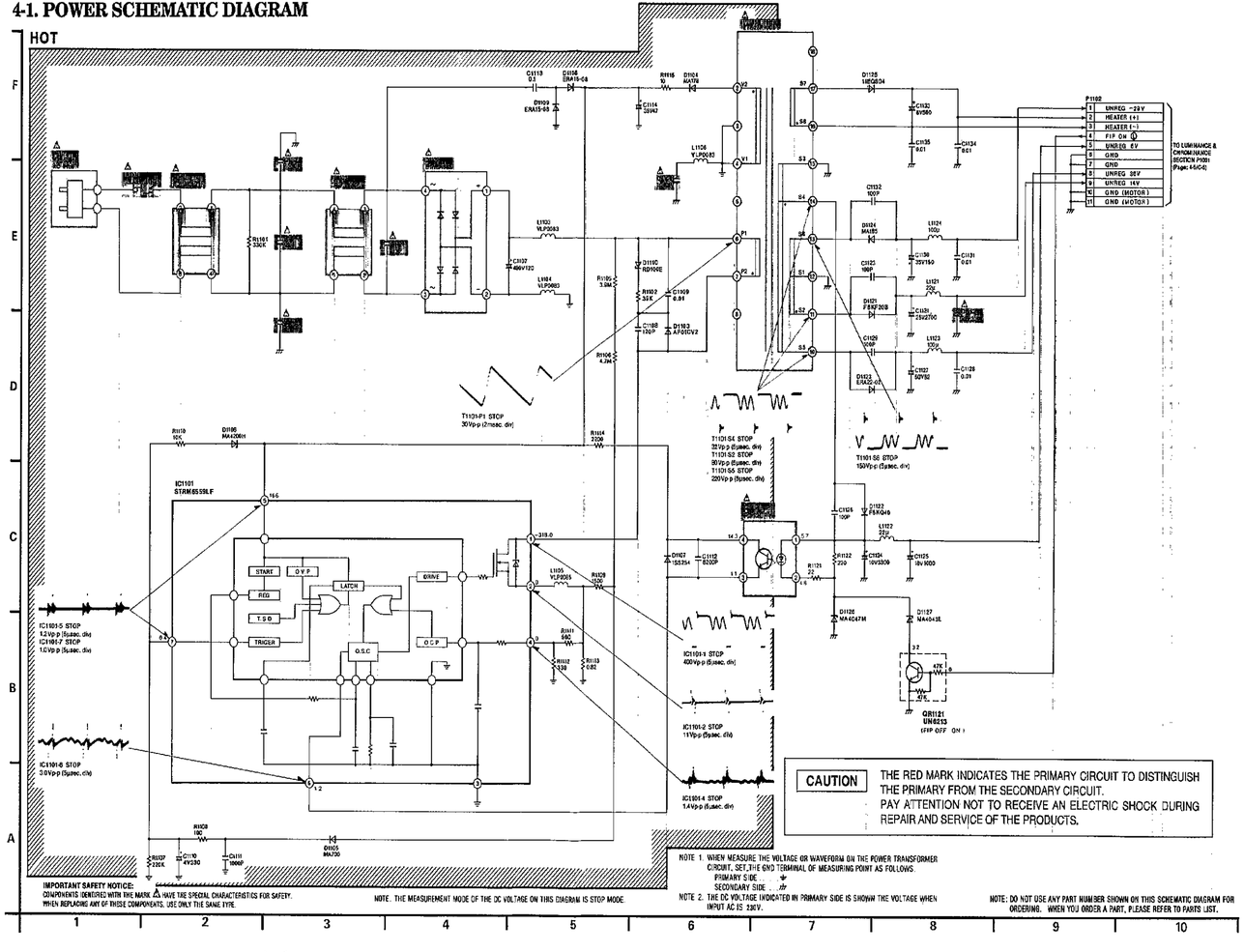

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
VR C. B. A.
INPUT/OUTPUT PACK C. B. A.
OSD SECTION
LUMINANCE & CHROMINANCE PACK C. B. A.
HEAD AMP C. B. A.

3-4. Hi-Fi AUDIO BLOCK DIAGRAM



SECTION 4
SCHEMATIC DIAGRAMS

4-1. POWER SCHEMATIC DIAGRAM

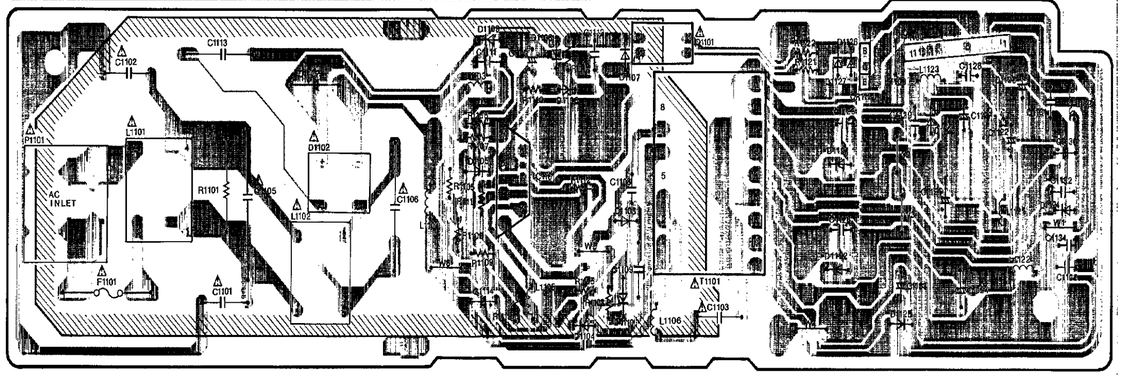

HOT
IC1101
STRM6559LF
START
O.V.P
REG
T.S.D
TRIGGER
LATCH
DRIVE
O.S.C
O.C.P
P1102
1 UNREG -29V
2 HEATER (+)
3 HEATER (-)
4 F.I.P ON
5 UNREG 6V
6 GND
7 GND
8 UNREG 26V
9 UNREG 14V
10 GND (MOTOR)
11 GND (MOTOR)
TO LUMINANCE & CHROMA MAIN SECTION P1001 (Page: 4-5/C4)
T1101-P1 STOP
30Vp-p (2/msec. div)
T1101-S4 STOP
32Vp-p (5/usec. div)
T1101-S2 STOP
90Vp-p (5/usec. div)
T1101-S5 STOP
220Vp-p (5/usec. div)
T1101-S6 STOP
150Vp-p (5/usec. div)
IC1101-5 STOP
1.2Vp-p (5/usec. div)
IC1101-7 STOP
1.0Vp-p (5/usec. div)
IC1101-1 STOP
400Vp-p (5/usec. div)
IC1101-2 STOP
115Vp-p (5/usec. div)
IC1101-6 STOP
2.6Vp-p (5/usec. div)
IC1101-4 STOP
1.4Vp-p (5/usec. div)
QR1121
UN6213
(FIP OFF ON)
CAUTION
THE RED MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.
NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ⏚
SECONDARY SIDE ⏚
NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 230V.
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-2. POWER C.B.A. (VEP01639A)

POWER C.B.A.	
Transistor	
Q1101	B-4
Transistor & Resistor	
QR1121	B-5
Integrated Circuit	
IC1101	A-3
Connector	
P1101	B-1
P1102	B-6

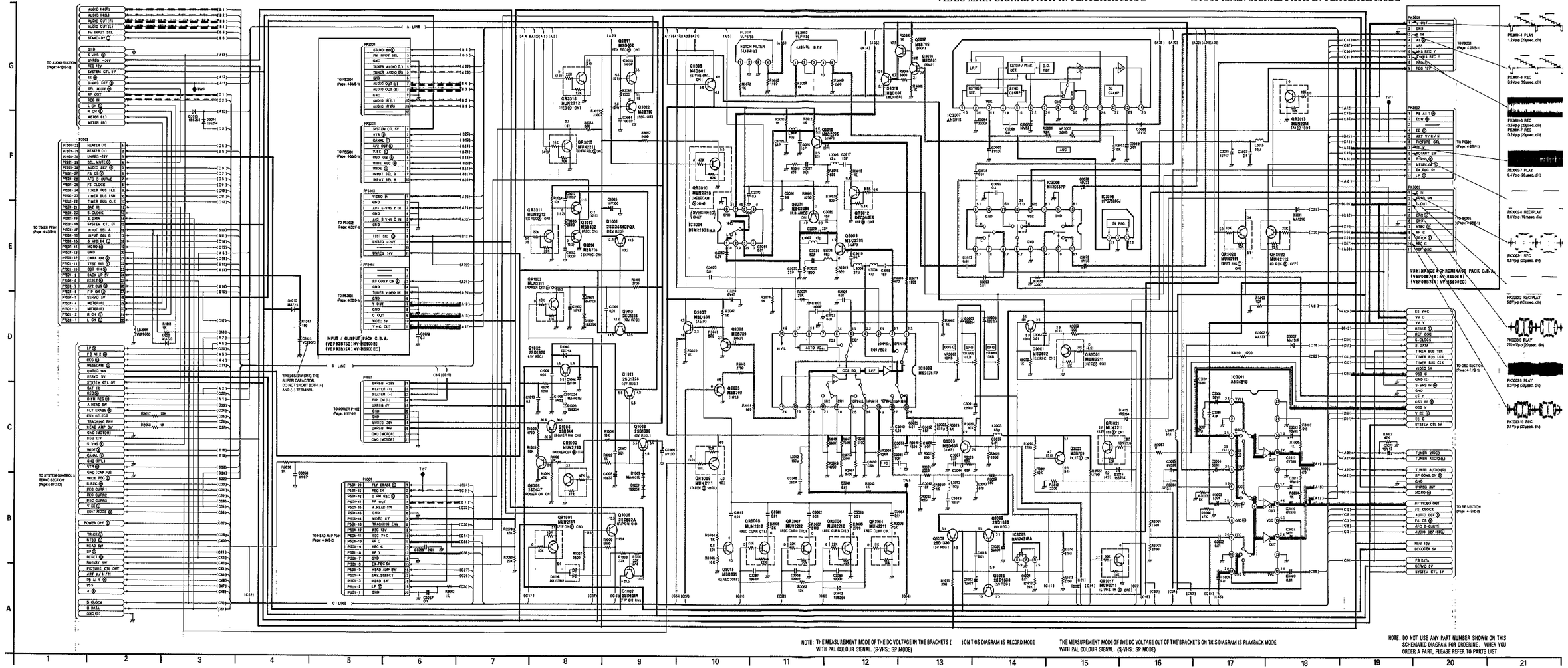
ADDRESS INFORMATION

CAUTION
THE RED MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

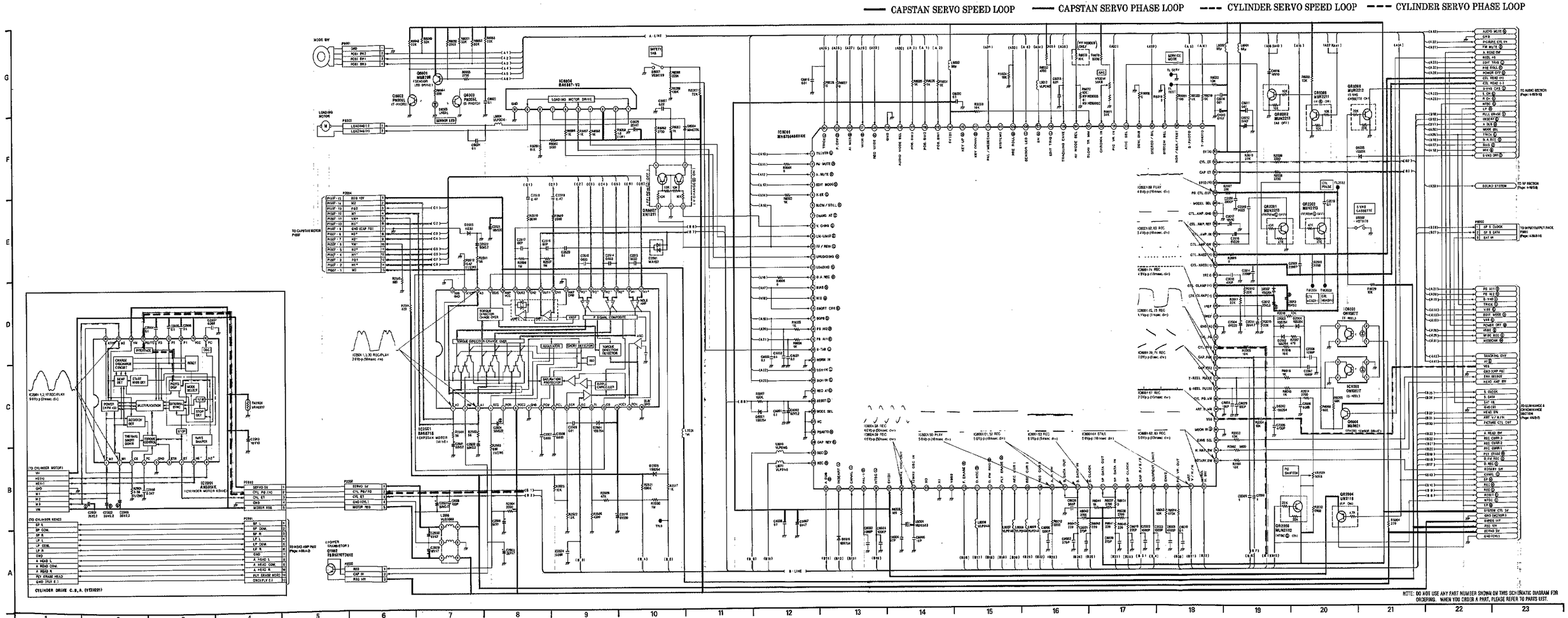


4-3. LUMINANCE & CHROMINANCE SECTION IN MAIN SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE


INPUT / OUTPUT PACK C.B.A.
(VEP93875C : NV-HS900)
(VEP93875A : NV-HS900)
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP93878B : NV-HS900)
(VEP93878A : NV-HS900)
IC3001 AN3061S
IC3004 NJM2233MA
IC3007 AN3915
IC3008 M65646FP
IC3009 μPC1892J
IC3303 M52378-FP
IC3305 HA17431PA
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-4. SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM


CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
IC5801 BA6718 (CAPSTAN MOTOR DRIVER)
IC5802 BA6687-V2
IC6001 M30620MC-XXXFP
IC2901 AM26LV31 (CYLINDER MOTOR DRIVER)
CYLINDER DRIVE C.B.A. (VEX0201)
TO CYLINDER MOTOR
TO CAPSTAN MOTOR
TO HEAD AMP PWB
TO AUDIO SECTION
TO SYSTEM I/O/OUTPUT PACK
TO OSD ILLUMINANCE & CHROMINANCE SECTION
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (S-VHS: SP MODE)

REF. NO.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.5	4.5	0.5	13.8	0	14.4	−0.1	4.6	2.0	2.9	1.4	−0.1	−0.1	5.1	1.4	−0.1	2.3	2.3	2.3	2.3
PLAY	1.5	4.5	1.5	13.0	1.8	14.3	−0.1	0.6	0.6	2.9	2.6	0.4	0	5.1	1.4	−0.1	2.3	2.3	2.3	2.3
REC	1.6	4.5	1.6	13.0	1.9	14.2	−0.1	0.6	0.6	2.9	2.6	0.4	0	5.1	1.4	−0.1	2.3	2.3	2.3	2.3
F.F	6.8	14.1	6.9	5.7	12.3	14.2	−0.1	0.6	0.7	2.9	2.4	0.4	0.1	5.1	1.4	−0.1	2.3	2.3	2.3	2.3
REW	6.9	14.2	6.9	7.0	12.4	14.3	−0.1	0.6	0.6	2.9	2.5	0.4	0	5.1	1.4	−0.1	2.3	2.3	2.3	2.3

REF. NO.	IC2501											
MODE	21	22	23	24	25	26	27	28	29	30	31	32
STOP	2.3	2.3	0	6.3	6.2	6.3	6.2	12.3	2.0	0.5	−0.1	−0.1
PLAY	2.3	2.3	0	6.3	6.2	6.3	6.3	12.3	0	1.6	0	−0.1
REC	2.3	2.3	0	6.3	6.2	6.3	6.3	12.3	0	1.6	0	−0.1
F.F	2.3	2.3	0	6.3	6.2	6.3	6.3	12.3	0	6.8	0.1	−0.1
REW	2.3	2.3	0	6.3	6.2	6.3	6.3	12.3	5.0	6.5	0	−0.1

REF. NO.	IC2901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
STOP	13.1	13.1	0.1	0.6	0	2.5	2.4	2.6	2.5	2.6	4.9	3.7	3.6	3.7	1.3	13.8	13.3	0.1		
PLAY	13.8	12.8	0.2	0.6	0	2.5	2.4	2.6	2.5	2.7	4.9	3.7	3.7	3.7	1.4	13.6	13.7	0.2		
REC	13.7	13.7	0.2	0.6	0	2.5	2.4	2.6	2.5	2.7	4.9	3.8	3.7	3.7	1.5	13.6	13.7	0.2		
F.F	13.8	13.8	0.1	0.6	0	2.5	2.4	2.6	2.5	2.7	4.9	3.8	3.7	3.7	1.5	13.5	13.7	0.1		
REW	13.8	13.8	0.2	0.6	0	2.5	2.4	2.6	2.5	2.7	4.9	3.7	3.7	3.7	1.5	13.5	13.7	0.2		

REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	5.0	0	0	0	0	0	5.0	4.9	0	4.9	0	0	0	0	0	0	4.9	5.0	0	0.1
PLAY	0	0	0	0	4.9	0	5.0	4.9	0	4.9	0	0	0	0	0	0	4.9	0	4.9	0.1
REC	4.9	0	0	0	0	0	5.0	4.9	0	4.9	0	0	5.0	5.0	0	4.9	4.9	0	4.9	0.1
F.F	5.0	0	0	0	0	0	5.0	0	0	0	0	0	0	0	0	0	4.9	5.0	0	0.1
REW	5.1	0	0	0	0	0	5.0	0	0	0	0	0	0	0	0	0	4.9	5.0	0	0.1

REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	5.0	0	0	0	0	5.0	0	0	5.0	5.0	5.0	5.0	5.0	2.6	2.6	4.5
PLAY	0	0	0	0	5.0	0	0	0	0	5.0	0	0	5.0	5.0	5.0	5.0	5.0	–	–	4.5
REC	0	0	0	0	5.0	0	0	0	0	0	4.9	0	5.0	5.0	5.0	5.0	5.0	–	–	4.5
F.F	0	0	0	0	5.0	0	0	0	0	5.0	0	0	5.0	5.0	5.0	5.0	5.0	–	–	4.5
REW	0	0	0	0	5.0	0	0	0	5.0	5.0	0	0	5.0	5.0	5.0	5.0	5.0	–	–	4.5

REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0	0	0	0	0	4.7	4.7	4.5	4.9	4.9	4.9	2.0	0	5.0	3.8
PLAY	0	0	0	0	0	0	0	0	0	2.5	4.7	4.7	4.5	4.9	4.9	4.9	0	5.0	0	3.0
REC	0	0	4.9	5.0	4.9	0	0	4.9	0	0	4.7	4.7	4.5	4.9	4.9	4.9	0	5.0	5.0	2.5
F.F	0	0	0	0	0	0	0	0	0	0	4.7	4.7	4.5	4.9	4.9	4.9	0	5.0	5.0	3.8
REW	0	0	0	0	0	0	0	0	0	0	4.7	4.7	4.5	4.9	4.9	4.9	5.0	5.0	5.0	3.8

REF. NO.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	2.5	0	0	1.9	0	2.4	0	3.4	5.0	0.1	2.5	2.5	1.1	2.5	0	2.5	2.5	2.4	2.6
PLAY	0	2.5	2.5	0	4.1	0	2.4	0	3.4	5.0	3.9	2.4	2.5	1.1	2.5	0	2.5	2.5	2.5	2.5
REC	0	2.5	2.5	0	4.7	0	2.4	0	3.4	5.0	4.5	2.4	2.5	1.1	2.5	0	2.5	2.5	2.3	2.6
F.F	0	2.5	0	0	2.4	0	2.4	0	3.4	2.3	2.3	2.4	2.5	1.1	2.5	0	2.5	2.5	2.7	2.3
REW	0	2.5	0	0	2.5	0	2.4	0	3.4	2.2	2.3	2.4	2.5	1.1	2.5	0	2.5	2.5	2.7	2.3

REF. NO.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	5.0	0	0	0	2.5	2.5	0	0	2.5	5.0	1.4	4.7	5.0	5.0	5.0	5.0	0	5.1	0	2.5
PLAY	4.9	0	0	0	2.5	2.5	0	0	2.5	5.0	2.6	2.5	5.0	5.0	5.0	5.0	0	5.1	0	2.5
REC	4.9	2.4	2.9	0	2.5	2.4	0	0	2.5	5.0	2.6	2.5	5.0	5.0	5.0	4.9	0	5.1	0	2.5
F.F	4.9	0	0	0	2.5	2.5	0	0	2.5	5.0	2.4	2.5	5.0	5.0	5.0	5.0	0	5.1	0	2.5
REW	4.9	0	0	0	2.5	2.5	0	0	2.4	5.0	2.6	2.5	5.0	5.0	5.0	5.0	0	5.1	0	2.5

REF. NO.	IC6001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	2.5	0	5.0	0	0.3	5.1	4.8	5.0	0	0	0	0.6	0.6	5.0	5.1	0	5.1	5.0	0	0
PLAY	2.5	3.8	5.0	0	3.2	5.1	4.8	0.1	0	0	0	0.4	0.4	5.0	0	0	5.0	5.0	0	0
REC	2.5	3.8	5.0	0	0.4	5.1	4.8	0	0	0	0	0	0.6	5.0	0	0	5.0	5.0	0	0
F.F	2.5	3.8	5.0	0	1.8	5.1	4.8	0.1	0	0	0	2.3	2.3	5.0	0	5.0	5.1	5.0	0	0
REW	2.5	3.8	5.0	0	2.6	5.1	4.8	0.1	0	0	0	1.5	1.5	5.0	0	5.1	5.1	5.0	0	0

REF. NO.	IC6001																			
MODE	121	122	123	124																
STOP	0	0	0	5.0																
PLAY	0	0	0	5.0																
REC	0	0	0	5.0																
F.F	0	0	0	5.0																
REW	0	0	0	5.0																

REF. NO.	IC6002										IC6003									
MODE	1	2	3	4							1	2	3	4						
STOP	1.1	0	5.0	0							2.3	1.1	0.1	0						
PLAY	1.1	0	5.0	0							2.3	1.1	4.2	0						
REC	1.1	0	5.0	0							2.3	1.1	4.6	0						
F.F	1.1	0	2.3	0							2.3	1.1	2.3	0						
REW	1.1	0	2.3	0							2.3	1.1	2.3	0						

REF. NO.	IC6004																			
MODE	1	2	3	4	5	6	7	8	9	10										
STOP	0.2	14.5	14.5	0	0	0	7.3	9.4	0.2	−0.1										
PLAY	0.4	14.3	14.3	0	0	0	7.2	9.2	0.4	−0.1										
REC	1.0	14.2	14.2	0	0	0	7.3	9.2	1.2	−0.1										
F.F	1.3	14.2	14.2	0	0	0	14.2	9.2	1.4	−0.1										
REW	0.2	14.3	14.3	0	0	0	14.3	9.2	0.2	−0.1										

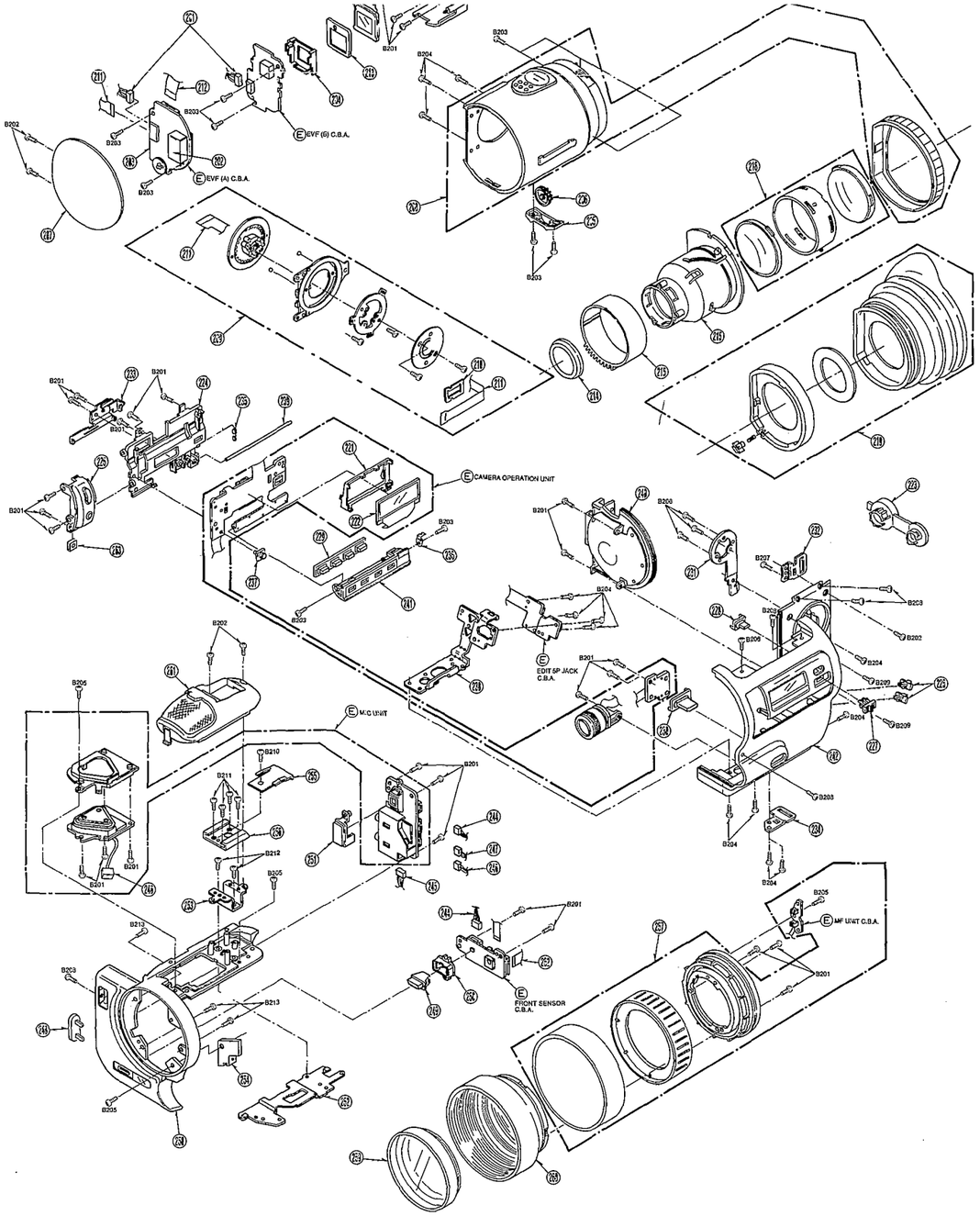
SYSTEM CONTROL & SERVO TR.s DC VOLTAGE CHART (S-VHS: SP MODE)

REF. NO.	Q6001			Q6002			Q6003			Q6004										
MODE	E	C	B	E	C		E	C		E	C	B								
STOP	5.1	−0.5	5.0	0	5.0		0	5.0		5.1	5.1	5.7								
PLAY	5.1	5.0	4.3	0	5.0		0	5.0		5.1	5.1	5.7								
REC	5.1	5.0	4.3	0	5.0		0	5.0		5.1	5.1	5.7								
F.F	5.1	5.0	4.3	0	5.0		0	5.0		5.1	5.1	5.7								
REW	5.1	5.0	4.3	0	5.0		0	5.0		5.1	5.1	5.7								

REF. NO.	QR2001			QR2002			QR2003			QR2004			QR6002			QR6003		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	4.9	0	0	4.9	5.1	4.3	5.0	5.0	0.4	4.8	0	0	3.0	0	3.0	0
PLAY	0	0	4.9	0	0	4.9	5.1	4.8	5.0	5.0	0.4	4.8	0	0	3.0	0	3.0	0
REC	0	0	4.9	0	0	4.9	5.1	4.8	5.0	5.0	0.4	4.8	0	0	3.0	0	3.0	0
F.F	0	0	0	0	1.2	0	5.1	4.8	5.0	5.0	0.4	4.8	0	0	3.0	0	3.0	0
REW	0	0	0	0	1.2	0	5.1	4.8	5.0	5.0	0.4	4.8	0	0	3.0	0	3.0	0

REF. NO.	QR6006			QR6007																
MODE	E	C	B	1	2	3	4	5												
STOP	0	0	8.7	0	0	4.9	−0.1	4.9												
PLAY	0	0	8.7	0	0	4.9	−0.1	4.9												
REC	0	0	8.7	0	0	4.9	−0.1	4.9												
F.F	0	0	8.7	14.3	7.7	0	−0.1	0												
REW	0	0	8.7	14.3	7.7	0	−0.1	0												

ion	Pcs	Remarks
	3	
	1	
	5	
	2	
	1	
	4	
	2	
	3	



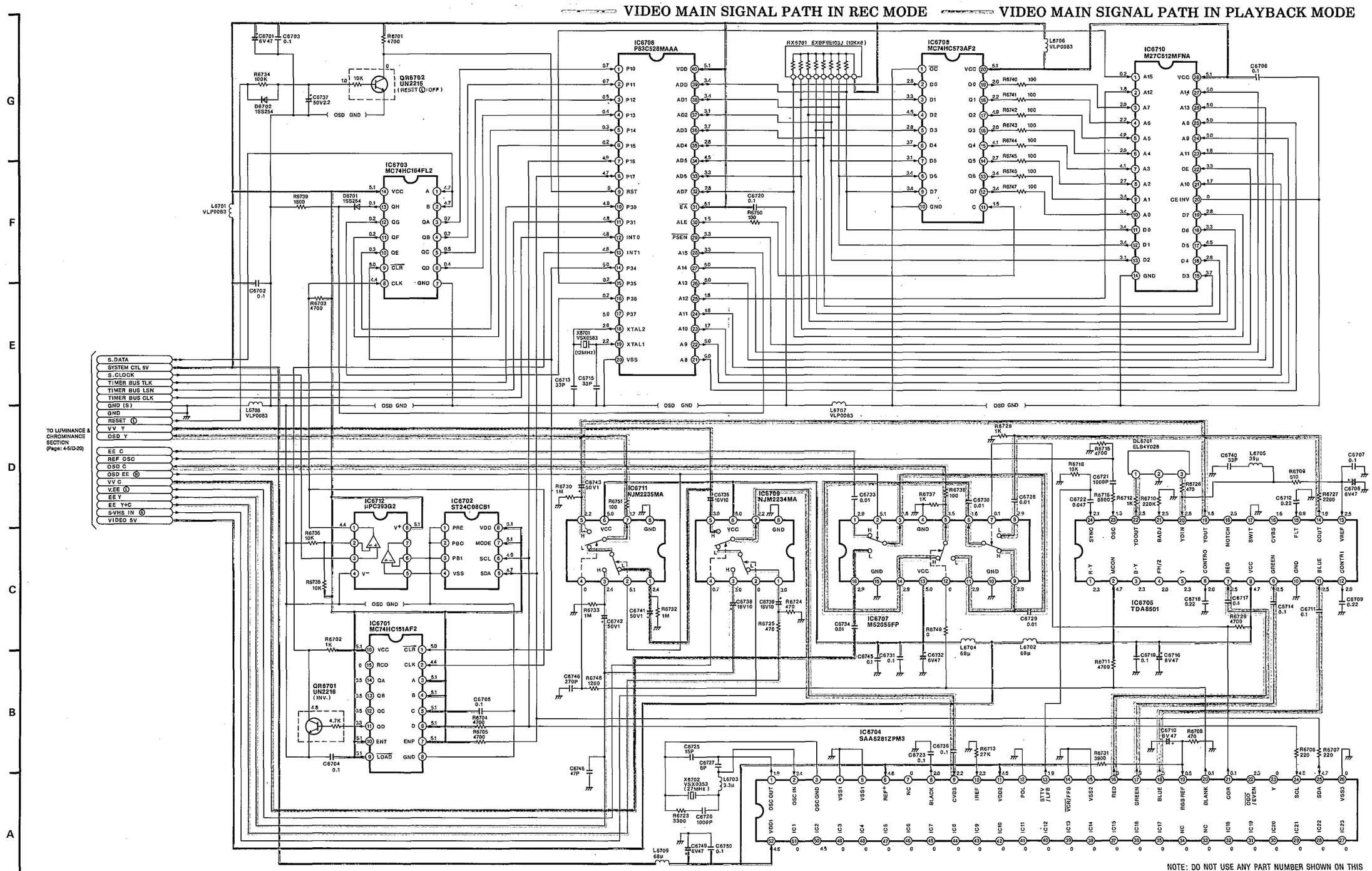
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
201 (2)	VEE9367	WIRE CABLE	1	
202 (2)	VSC4265	SHIELD CASE	1	
203 (2)	VSC4266	SHIELD CASE	1	
204 (2)	VGQ3442	BL HOLDER	1	
205 (2)	VGQ3855	EYE SIGHT ADJ. PIECE	1	
206 (2)	VGU6944	EYE SIGHT ADJ. DIAL	1	
207 (2)	VKM4175	EVF CASE (FRONT)	1	
208 (2)	VYK7192	EVF CASE (REAR)	1	
209 (2)	VYQ1267	TURN SECTION	1	
210 (2)	VGQ4028	CABLE GUIDE	1	
211 (2)	VJB08185	FLEXIBLE CABLE	1	
212 (2)	F07KM210	LCD	1	
213 (2)	VMG0771	LCD RUBBER	1	
214 (2)	VDL0646	LENS (L1)	1	
215 (2)	VGQ3837	LCD HOLDER (REAR)	1	
216 (2)	VGQ3872	EYE SIGHT ADJ. GEAR	1	
217 (2)	VGQ4238	LCD HOLDER (FRONT)	1	
218 (2)	VYQ1362	LENS HOLDER (1)	1	
219 (2)	VYQ1335	EYE CAP (1)	1	
221 (2)	VGQ3831	LCD HOLDER	1	
222 (2)	VSL0475	LCD PANEL	1	
223 (2)	VGF0544	5P COVER	1	
224 (2)	VGQ3846	OPERATION DOOR HOLDER	1	
225 (2)	VYK7214	OPERATION PIECE	1	
226 (2)	VGU6933	AGS. WIDE KNOB	2	
227 (2)	VGU6936	MANUAL/AUTO KNOB	1	
228 (2)	VGU6939	LCD SWITCHING BUTTON	1	
229 (2)	VGU6949	OPERATION BUTTON	1	
230 (2)	VGU6958	QUICK ZOOM BUTTON	1	
231 (2)	VMA9223	EVF SUPPORT ANGLE	1	
232 (2)	VMA9224	SHOULDER BELT ANGLE (B)	1	
233 (2)	VMA9225	OPERATION DOOR ANGLE	1	
234 (2)	VMA9233	SHOULDER BELT ANGLE	1	
235 (2)	VMB2967	OPERATION DOOR SPRING	1	
236 (2)	VMC1221	SPRING HOOK	1	
237 (2)	VMG0358	ZOOM SWITCH	1	
238 (2)	VMP4715	JACK FRAME	1	
239 (2)	VMS5749	OPERATION DOOR SHAFT	1	
240 (2)	VYF2171	HEAT SINK (1)	1	
241 (2)	VYF2325	OPERATION DOOR	1	
242 (2)	VYK7201	SIDE CASE (R)	1	
244 (2)	VEE9340	WIRE CABLE	1	
245 (2)	VEE9863	MIC WIRE CABLE	1	
246 (2)	VEE9299	ECM WIRE CABLE	1	
247 (2)	VEE9339	WIRE CABLE	1	
248 (2)	VGF0543	MIC JACK CAP	1	
249 (2)	VGL0613	TALLY LIGHT PANEL	1	
250 (2)	VGQ3825	LIGHT PANEL HOLDER	1	
251 (2)	VKW2024	AWT SENSOR WINDOW	1	
252 (2)	VMA9221	FRONT ANGLE	1	
253 (2)	VMA9222	MIC CASE ANGLE	1	
254 (2)	VMA9404	R CASE ANGLE	1	
255 (2)	VMC0241	SHOE SPRING	1	
256 (2)	VMP2407	SHOE	1	
257 (2)	VXP1560	MANUAL FOCUS U.	1	
258 (2)	VYK7185	FRONT CASE	1	
259 (2)	VDL0616	MC PROTECTOR	1	
260 (2)	VDW0331	LENS FOOD	1	
261 (2)	VYK7213	MIC CASE U.	1	
262 (2)	VJB00W20	FLEXIBLE CABLE	1	
263 (2)	VMA9482	FADE EARTH PLATE	1	
B201 (2)	XQN2+GJ4	SCREW	27	
B202 (2)	XQN2+CF6FZ	SCREW	5	
B203 (2)	XQN2+GJ4FZ	SCREW	10	
B204 (2)	XQN2+CF4FZ	SCREW	13	
B205 (2)	XQN2+CF4	SCREW	4	

Ref.No.	Part No.	Part Name & Descrip
B206 (2)	XSN2+12	SCREW
B207 (2)	XQN2+GJ35FZ	SCREW
B208 (2)	VHD0729	SCREW
B209 (2)	XQN2+CF5FZ	SCREW
B210 (2)	XVE2A3FZ	SCREW
B211 (2)	XQN2+A2	SCREW
B212 (2)	XQN2+CF6	SCREW
B213 (2)	XQN2+CJ6	SCREW

4-6. OSD SECTION IN MAIN SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE



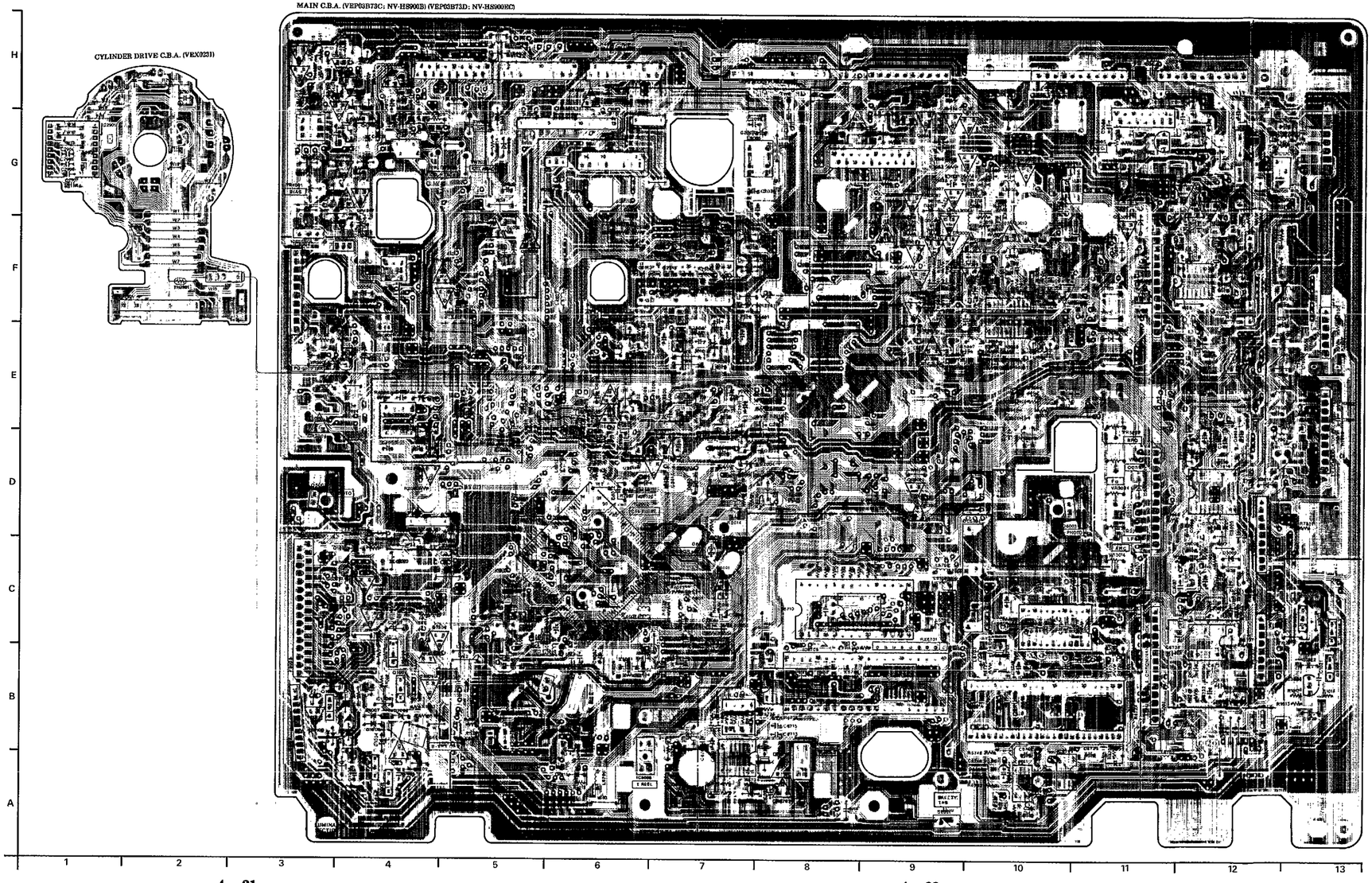
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-8. MAIN C.B.A. (VEP03B73C: NV-HS900B)(VEP03B73D: NV-HS900EC)

CYLINDER DRIVE C.B.A. (VEX0231)

MAIN C.B.A. (VEP03B73C: NV-HS900B) (VEP03B73D: NV-HS900EC)



MAIN C.B.A. ADDRESS INFORMATION

SYSTEM CONTROL & SERVO SECTION	
Transistor	
Q6001	C-7
Q6002	D-3
Q6003	D-10
Q6004	A-7
Transistor & Resistor	
QR2001	D-7
QR2002	D-7
QR2003	D-4
QR2004	D-3
QR6002	E-6
QR6003	E-6
QR6006	H-5
QR6007	E-4
Integrated Circuit	
IC2501	F-7
IC2901	G-1
IC6001	C-8
IC6002	B-8
IC6003	A-6
IC6004	F-3
Test Point	
TL2002	D-8
TLSERV	E-8
TLTEST	E-8
TW9	H-8
TW2031	G-5
TW2032	G-4
Adjustment	
VR2001	E-3
Connector	
P2002	G-6
P2003	G-6
P2004	G-6
P2901	F-2
P2902	F-2
P6001	D-4
P6002	F-4
P6003	B-6

ADDRESS INFORMATION

LUMINANCE & CHROMINANCE SECTION	
Transistor	
Q1001	B-3
Q1002	A-4
Q1003	A-4
Q1004	B-4
Q1005	B-4
Q1006	C-4
Q1007	C-4
Q1008	C-13
Q1009	B-13
Q1010	B-3
Q1011	A-4
Q3001	G-11
Q3003	F-10
Q3005	F-10
Q3006	F-9
Q3007	F-9
Q3008	F-9
Q3009	F-10
Q3010	F-10
Q3011	G-10
Q3012	G-9
Q3013	H-9
Q3014	G-9
Q3015	G-9
Q3016	G-12
Q3017	G-12
Q3018	G-12
Q3019	C-13
Q3021	G-10
Q3022	E-12
Transistor & Resistor	
QR1001	B-4
QR1002	B-4
QR1003	C-4
QR3001	G-11
QR3004	F-9
QR3006	G-9
QR3007	G-9
QR3008	F-9
QR3009	F-9
QR3010	E-9
QR3011	G-8
QR3012	G-10
QR3013	F-11
QR3015	G-9
QR3016	F-9
QR3017	B-12
QR3020	D-9
QR3021	F-11
QR3022	D-9
Integrated Circuit	
IC3001	D-12
IC3003	F-10
IC3004	G-10
IC3005	B-13
IC3006	F-12
IC3007	H-11
IC3008	G-11
Test Point	
TW1	C-11
TW3	F-11
TW5	F-11
TW7	H-11
Adjustment	
VR3001	D-11
VR3002	E-11
VR3003	D-11
VR3004	D-11
VR3005	G-11
VR3014	C-11
Connector	
P1001	B-3
P3001	G-8
P3003	B-3
PP3001	H-7
PP3002	H-9
PP3003	H-10
PP3004	H-11
PK3001	B-11
PK3002	D-11
PK3003	F-11

ADDRESS INFORMATION

AUDIO SECTION	
Transistor	
Q4002	H-4
Q4006	H-4
Q4007	H-4
Q4008	G-4
Q4009	G-4
Q4010	G-4
Q4011	G-4
Q4012	F-5
Transistor & Resistor	
QR4001	H-6
QR4002	G-4
QR4003	F-5
QR4004	F-5
QR4005	H-3
QR4006	H-3
QR4007	G-4
QR4008	F-5
Integrated Circuit	
IC4001	E-4
Test Point	
TW2	E-11
TW4002	G-5
TW4003	G-5
TW4004	H-5
TW4501	H-10
Adjustment	
VR4001	G-3
Connector	
P4001	G-5
P4002	F-3
P4003	G-4
PK4001	H-4
PK4002	H-5
PK4003	H-6

ADDRESS INFORMATION

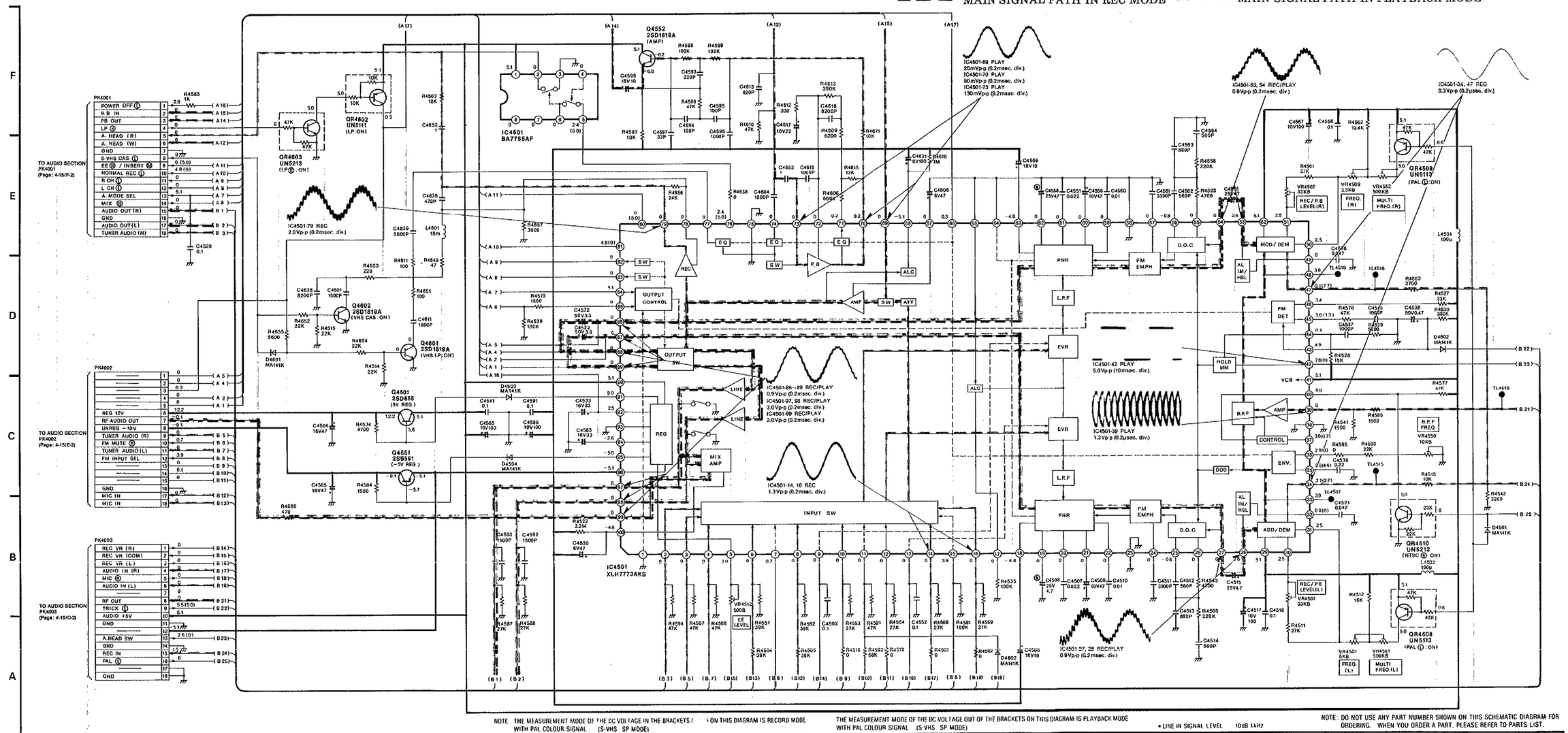
OSD SECTION	
Transistor & Resistor	
QR6701	A-8
QR6702	A-8
Integrated Circuit	
IC6701	A-7
IC6702	B-7
IC6703	B-9
IC6704	B-10
IC6705	C-10
IC6706	E-8
IC6707	C-12
IC6708	C-9
IC6709	A-10
IC6710	C-8
IC6711	A-10
IC6712	B-8

ADDRESS INFORMATION

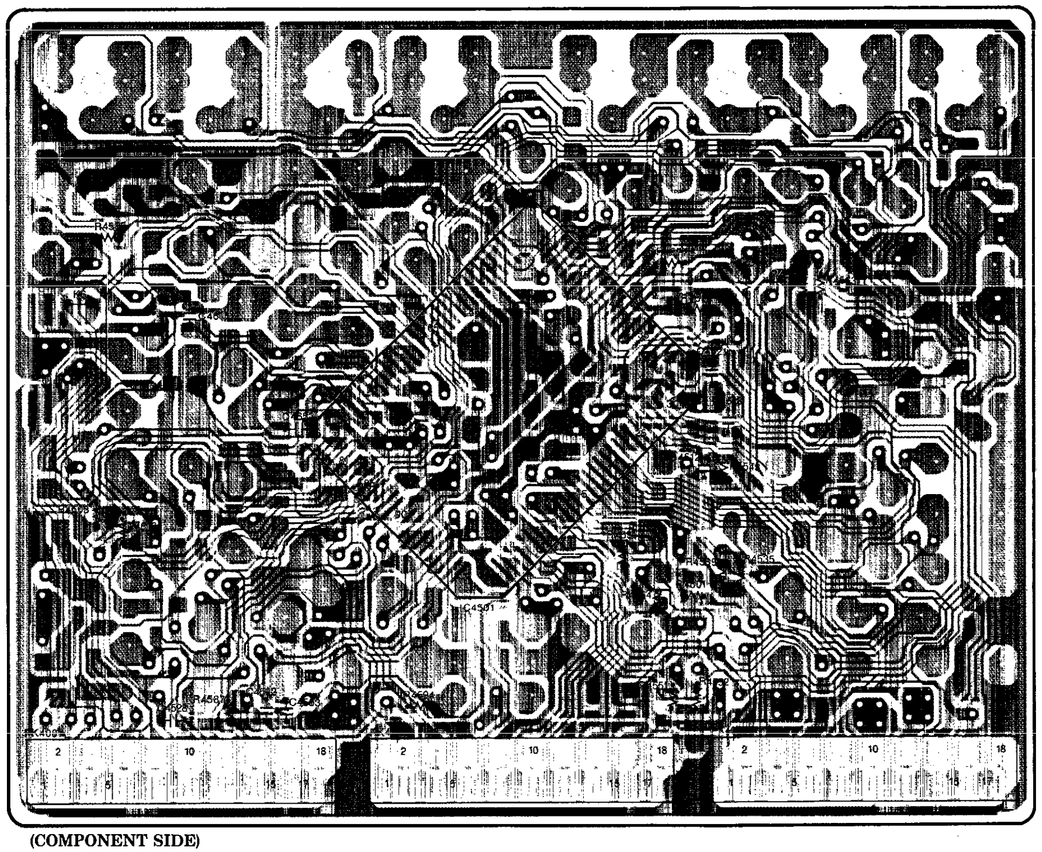
RF SECTION	
Connector	
PK7301	C-12
PK7302	B-12

ADDRESS INFORMATION

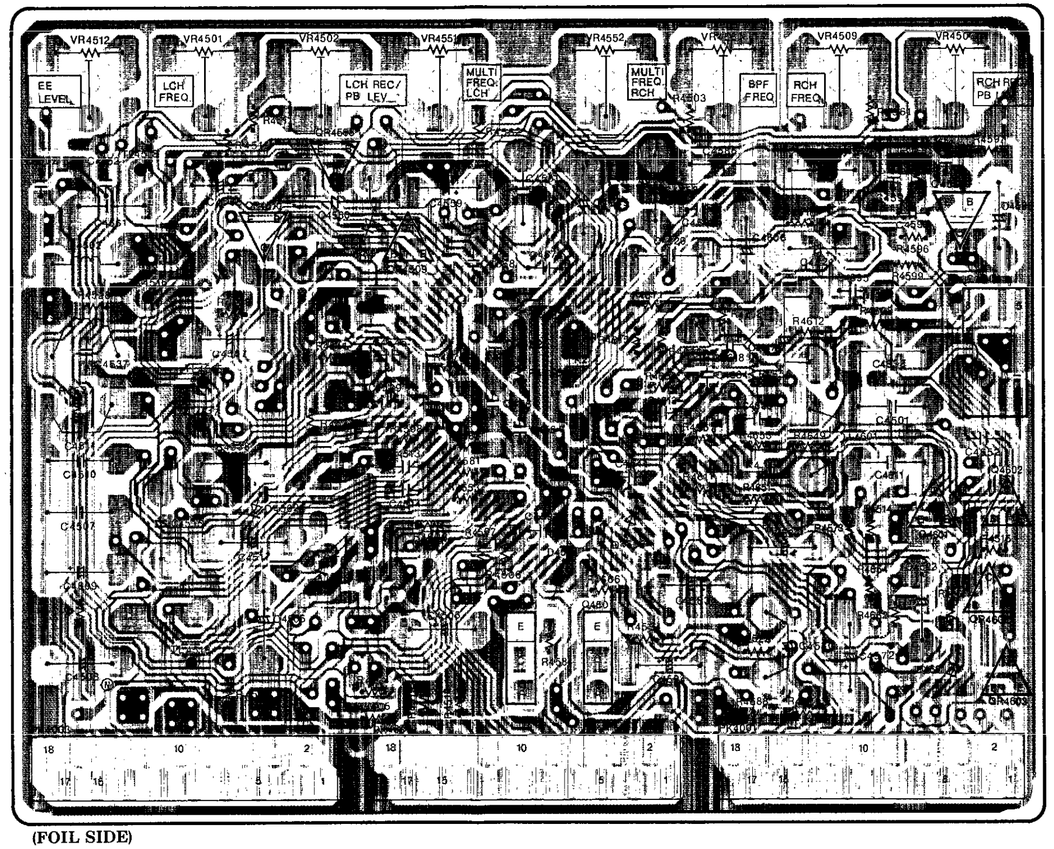
4-9. Hi-Fi AUDIO PACK SCHEMATIC DIAGRAM



4-10. Hi-Fi AUDIO PACK C.B.A. (VEP04447PR)



(COMPONENT SIDE)



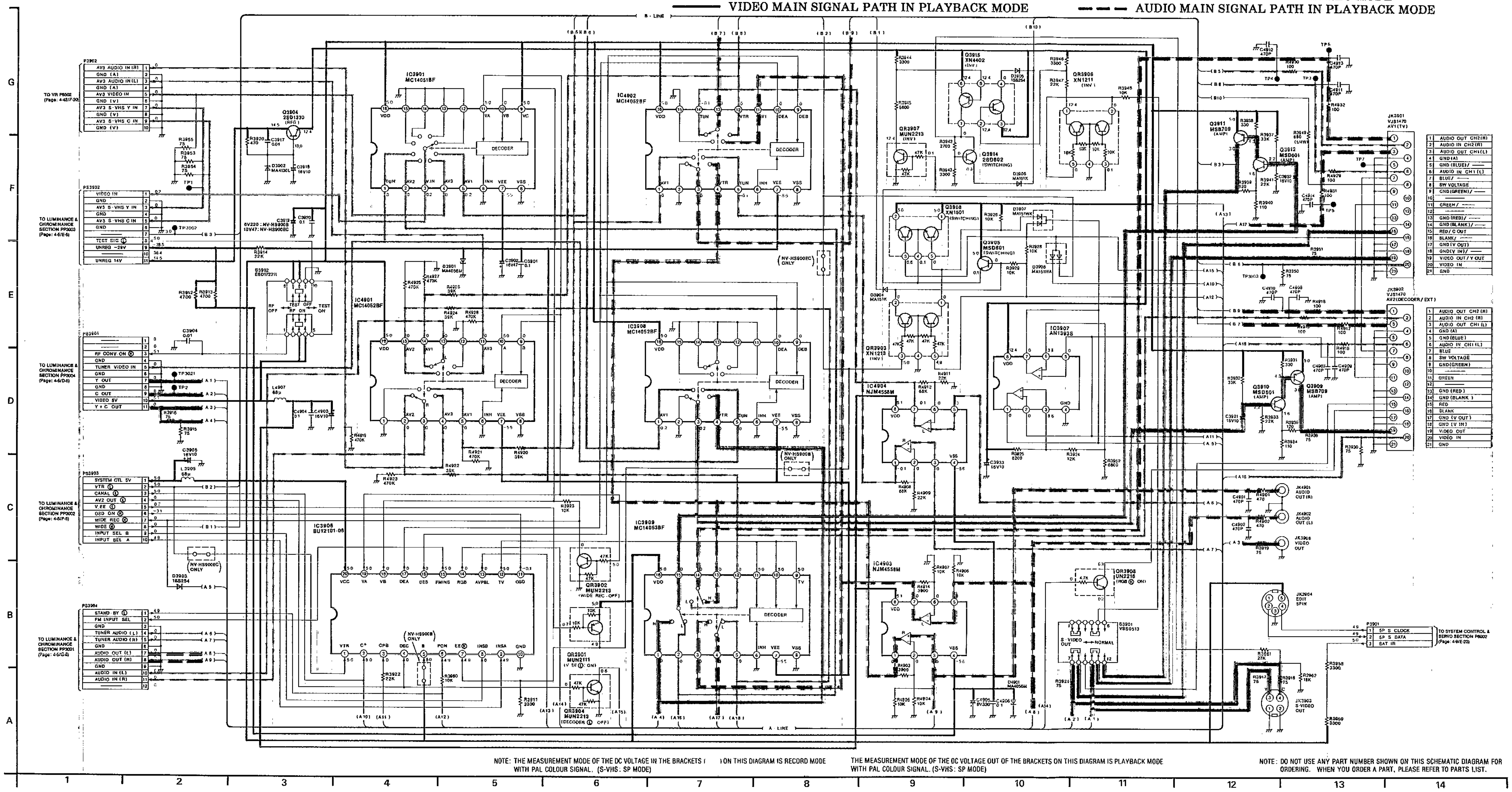
(FOIL SIDE)

HI-FI AUDIO PACK C.B.A.	
Transistor	
Q4501	A-7
Q4551	A-7
Q4552	C-9
Q4601	B-9
Q4602	B-9
Transistor & Resistor	
QR4508	C-6
QR4509	C-7
QR4510	C-8
QR4602	B-9
QR4603	A-9
Integrated Circuit	
IC4501	B-3
IC4601	C-9
Test Point	
TL4515	B-6
TL4516	C-5
TL4517	B-6
TL4518	C-5
TL4519	A-6
Adjustment	
VR4501	D-8
VR4502	D-8
VR4507	D-9
VR4509	D-8
VR4512	D-5
VR4550	D-8
VR4551	D-7
VR4552	D-7
Connector	
PK4001	A-1
PK4001	A-8
PK4002	A-2
PK4002	A-7
PK4003	A-4
PK4003	A-5

ADDRESS INFORMATION

4-11. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



B - LINE
A - LINE
P3902
AV3 AUDIO IN (R)
GND (A)
AV3 AUDIO IN (L)
GND (A)
AV3 VIDEO IN
GND (V)
AV3 S-VHS Y IN
GND (V)
AV3 S-VHS C IN
GND (V)
TO VR P6502 (Page: 4-42/F-20)
PS3902
VIDEO IN
GND
AV3 S-VHS Y IN
GND
AV3 S-VHS C IN
GND
TEST SIG
UNREG -29V
UNREG 14V
TO LUMINANCE & CHROMINANCE SECTION PP3003 (Page: 4-5/E-5)
PS3901
RF CONV. ON
GND
TUNER VIDEO IN
GND
Y OUT
GND
C OUT
VIDEO 5V
Y + C OUT
TO LUMINANCE & CHROMINANCE SECTION PP3004 (Page: 4-5/D-5)
PS3903
SYSTEM CTL 5V
VTR
CANAL
AV2 OUT
V.EE
OSD ON
WIDE REC
WIDE
INPUT SEL B
INPUT SEL A
TO LUMINANCE & CHROMINANCE SECTION PP3002 (Page: 4-5/F-5)
PS3904
STAND-BY
FM INPUT SEL
GND
TUNER AUDIO (L)
TUNER AUDIO (R)
GND
AUDIO OUT (L)
AUDIO OUT (R)
GND
AUDIO IN (L)
AUDIO IN (R)
TO LUMINANCE & CHROMINANCE SECTION PP3001 (Page: 4-5/G-5)
IC3901 MC14051BF
IC4902 MC14052BF
IC4901 MC14052BF
IC3908 MC14052BF
IC3906 BU12101-06
IC3909 MC14053BF
IC4904 NJM4558M
IC4903 NJM4558M
IC3907 AN1393S
Q3904 2SD1330 (REG)
Q3915 XN4402 (INV)
QR3906 XN1211 (INV)
QR3907 MUN2213 (INV)
Q3914 2SD602 (SWITCHING)
Q3908 XN1501 (SWITCHING)
Q3905 MSD601 (SWITCHING)
QR3903 XN1213 (INV)
Q3911 MSB709 (AMP)
Q3912 MSD601 (AMP)
Q3910 MSD601 (AMP)
Q3909 MSB709 (AMP)
QR3902 MUN2213 (WIDE REC-OFF)
QR3901 MUN2111 (V EE ON)
QR3904 MUN2213 (DECODER OFF)
QR3908 UN2216 (RGB ON)
S3902 ESD172311
RF OFF
TEST OFF
RF ON
TEST ON
S3901 VSS0513
S-VIDEO OUT
NORMAL
(NV-HS900EC ONLY)
(NV-HS900B ONLY)
6V220: NV-HS900B
10V47: NV-HS900EC
JK3901 VJS1470 AV1(TV)
1 AUDIO OUT CH2(R)
2 AUDIO IN CH2(R)
3 AUDIO OUT CH1(L)
4 GND(A)
5 GND(BLUE)/ ——
6 AUDIO IN CH1(L)
7 BLUE/ ——
8 SW VOLTAGE
9 GND(GREEN)/ ——
10 ——
11 GREEN/ ——
12 ——
13 GND(RED)/ ——
14 GND(BLANK)/ ——
15 RED/C OUT
16 BLANK/ ——
17 GND(V OUT)
18 GND(V IN)/ ——
19 VIDEO OUT/Y OUT
20 VIDEO IN
21 GND
JK3902 VJS1470 AV2(DECODER/EXT)
1 AUDIO OUT CH2(R)
2 AUDIO IN CH2(R)
3 AUDIO OUT CH1(L)
4 GND(A)
5 GND(BLUE)
6 AUDIO IN CH1(L)
7 BLUE
8 SW VOLTAGE
9 GND(GREEN)
10 ——
11 GREEN
12 ——
13 GND(RED)
14 GND(BLANK)
15 RED
16 BLANK
17 GND(V OUT)
18 GND(V IN)
19 VIDEO OUT
20 VIDEO IN
21 GND
JK4901 AUDIO OUT (R)
JK4902 AUDIO OUT (L)
JK3906 VIDEO OUT
JK3904 EDIT 5PIN
JK3903 S-VIDEO OUT
P3901
5P S CLOCK
5P S DATA
SAT IR
TO SYSTEM CONTROL & SERVO SECTION P6002 (Page: 4-9/E-23)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

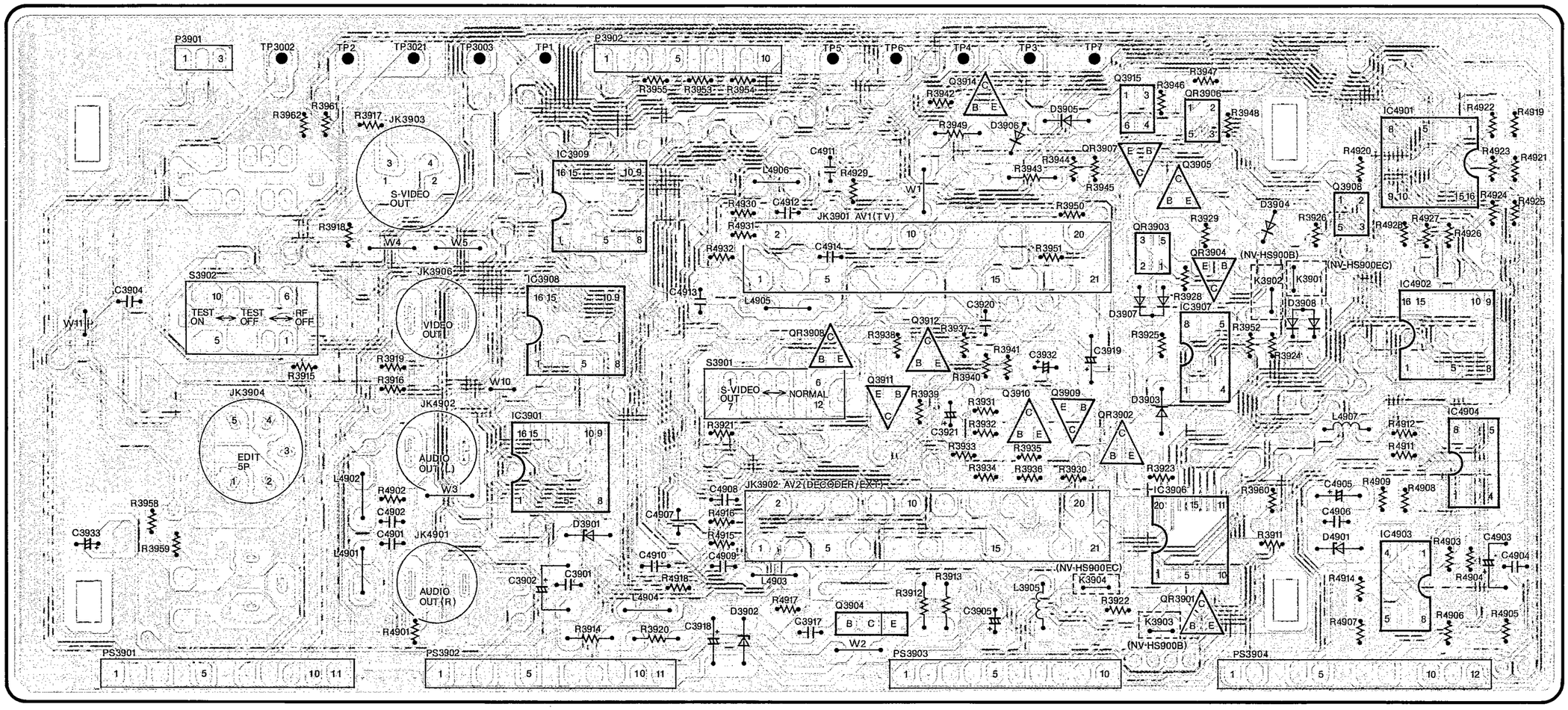
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-12. INPUT/OUTPUT PACK C.B.A. (VEP03B75C: NV-HS900B)(VEP03B75A: NV-HS900EC)

INPUT/OUTPUT PACK C.B.A.					
Transistor		QR3907	C-6	TP4	C-5
Q3904	A-4	QR3908	B-4	TP5	C-4
Q3905	C-6	**Integrated Circuit**		TP6	C-5
Q3908	C-6	IC3901	B-3	TP7	C-5
Q3909	B-5	IC3906	B-6	TP3002	C-2
Q3910	B-5	IC3907	B-6	TP3003	C-3
Q3911	B-4	IC3908	B-3	TP3021	C-2
Q3912	B-5	IC3909	C-3	**Connector**	
Q3914	C-5	IC4901	C-7	P3901	C-2
Q3915	C-6	IC4902	B-7	P3902	C-3
Transistor & Resistor		IC4903	A-7	PS3901	A-1
QR3901	A-6	IC4904	B-7	PS3902	A-3
QR3902	B-5	**Test Point**		PS3903	A-5
QR3903	C-6	TP1	C-3	PS3904	A-6
QR3904	C-6	TP2	C-2		
QR3906	C-6	TP3	C-5		

ADDRESS INFORMATION



4-13. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03B74B: NV-HS900B)(VEP03B74A: NV-HS900EC)

LUMINANCE & CHROMINANCE PACK C.B.A.

Transistor	
Q301	C-1
Q302	C-1
Q303	A-1
Q304	A-1
Q305	A-2
Q309	C-2
Q310	C-4
Q311	B-2
Q803	C-5
Q804	B-6
Q805	B-7

Transistor & Resistor	
QR301	C-1
QR302	C-1
QR303	C-2
QR304	C-4
QR305	C-2
QR307	B-3
QR308	B-3
QR309	A-3
QR310	A-2
QR311	A-3
QR312	A-3
QR313	A-2
QR314	B-3
QR315	C-3
QR316	C-2
QR320	C-3
QR321	C-2
QR801	C-7
QR802	B-7
QR803	A-7
QR805	B-6
QR806	B-6
QR807	B-4

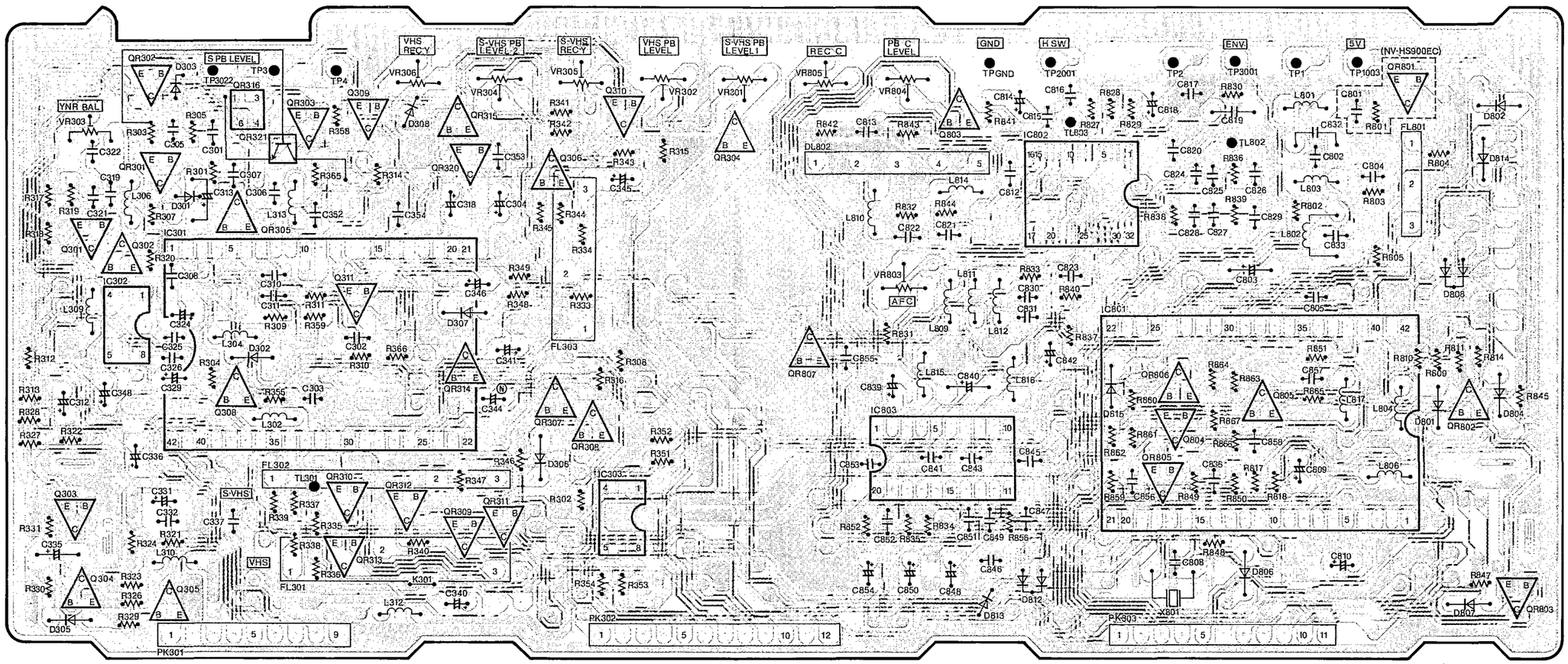
Integrated Circuit	
IC301	C-2
IC302	B-1
IC303	B-4
IC801	B-6
IC802	C-6
IC803	B-5

Test Point	
TL301	A-2
TL802	C-6
TL803	C-6
TP1	C-7
TP2	C-6
TP3	C-2
TP4	C-2
TP1003	C-7
TP2001	C-6
TP3001	C-6
TP3022	C-2
TPGND	C-5

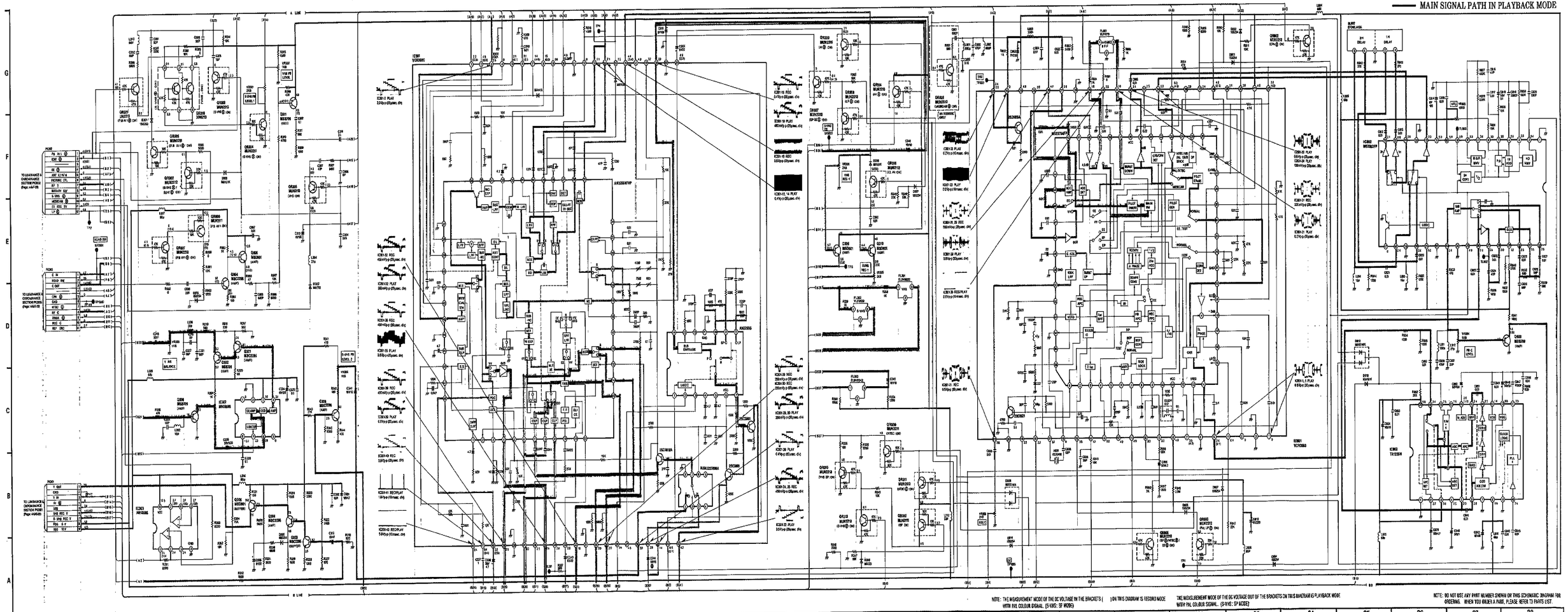
Adjustment	
VR301	C-4
VR302	C-4
VR303	C-1
VR304	C-3
VR305	C-3
VR306	C-3
VR803	C-5
VR804	C-5
VR805	C-5

Connector	
PK301	A-2
PK302	A-4
PK303	A-6

ADDRESS INFORMATION

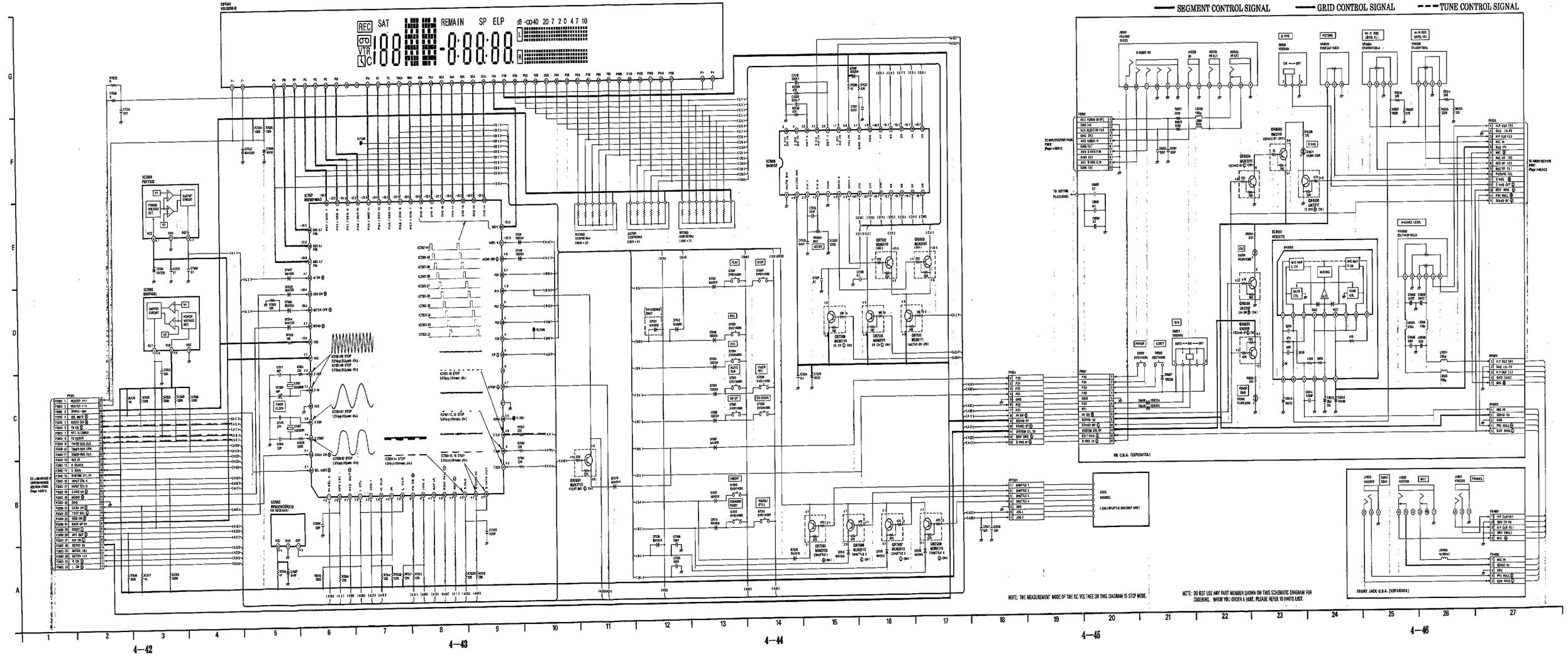


4-14. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
A LINE
B LINE
TO LUMINANCE & CHROMINANCE SECTION PCB (Page: 4A/F-2B)
TO LUMINANCE & CHROMINANCE SECTION PCB (Page: 4A/E-2B)
TO LUMINANCE & CHROMINANCE SECTION PCB (Page: 4A/B-2B)
NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS : SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS : SP MODE)
NOTE : DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-37 4-38 4-39 4-40 4-41

4-15. TIMER & VR SCHEMATIC DIAGRAM



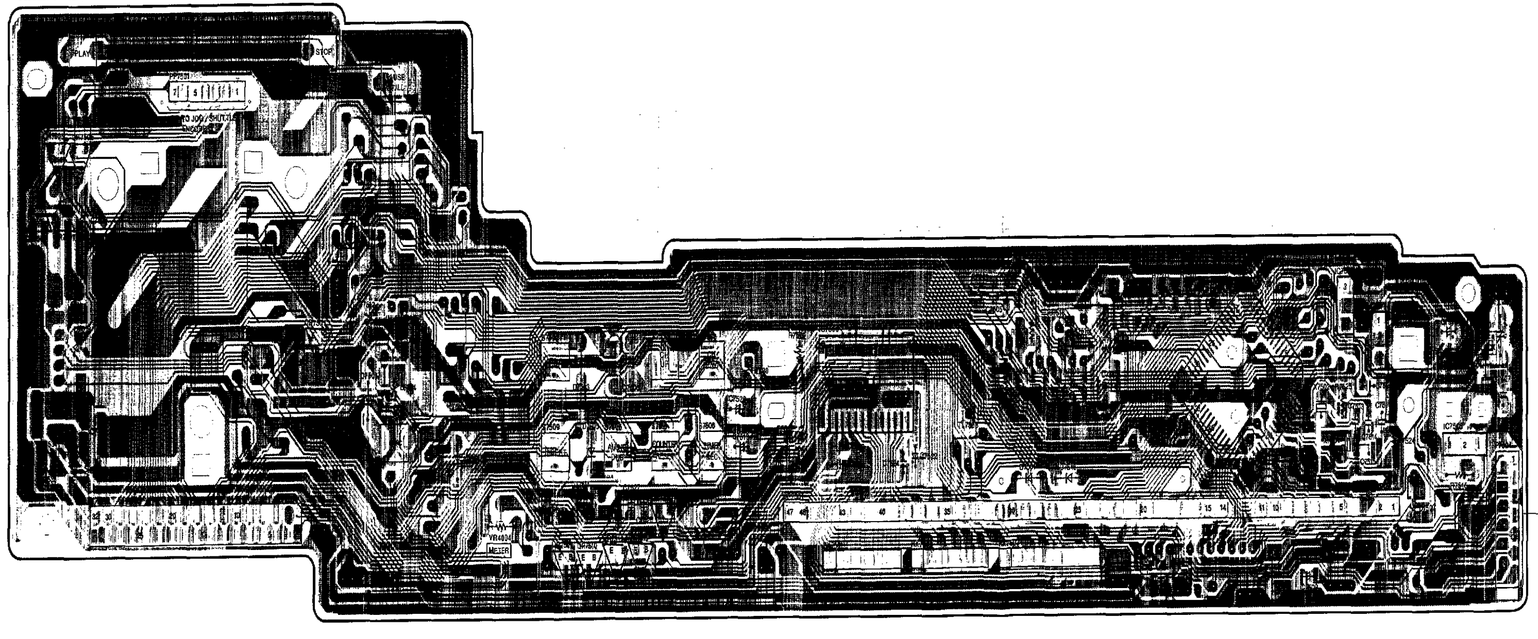
4-16. TIMER C.B.A. (VEP07808C: NV-HS900B)(VEP07808D: NV-HS900EC) & VR C.B.A. (VEP06A17A)

TIMER C.B.A. & VR C.B.A.

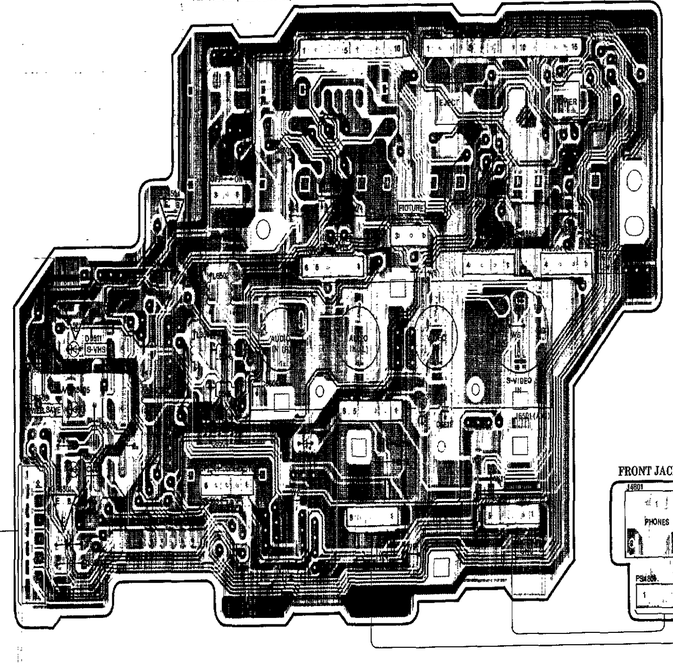
Transistor & Resistor				Test Point		Connector	
QR6501	A-12	QR7510	A-5	TL7501	B-9	P6501	B-12
QR6502	B-12	QR7511	A-5	TL7508	B-8	P6502	C-14
QR6503	B-12	QR7512	A-5	TL7509	A-9	P6503	C-15
QR6504	C-13	QR7513	A-5			P7501	A-1
QR6505	C-13	Integrated Circuit		Adjustment		P7504	B-11
QR7501	B-3	IC6501	B-14	VC7501	B-11	P76001	A-15
QR7505	C-1	IC7501	B-10	VR4004	A-4	P76002	A-14
QR7506	C-1	IC7503	B-11	VR6501	C-15	P77501	C-2
QR7507	C-1	IC7504	B-11	VR6502	C-14	PS4001	A-17
QR7508	C-1	IC7505	B-10	VR6503	C-15	PS4002	A-18
QR7509	A-5	IC7506	B-7	VR6504	C-16		

ADDRESS INFORMATION

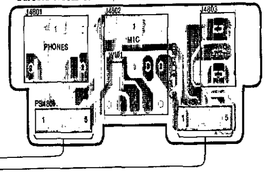
TIMER C.B.A. (VEP07808C: NV-HS900B) (VEP07808D: NV-HS900EC)



VR C.B.A. (VEP06A17A)



FRONT JACK C.B.A. (VEP04531A)



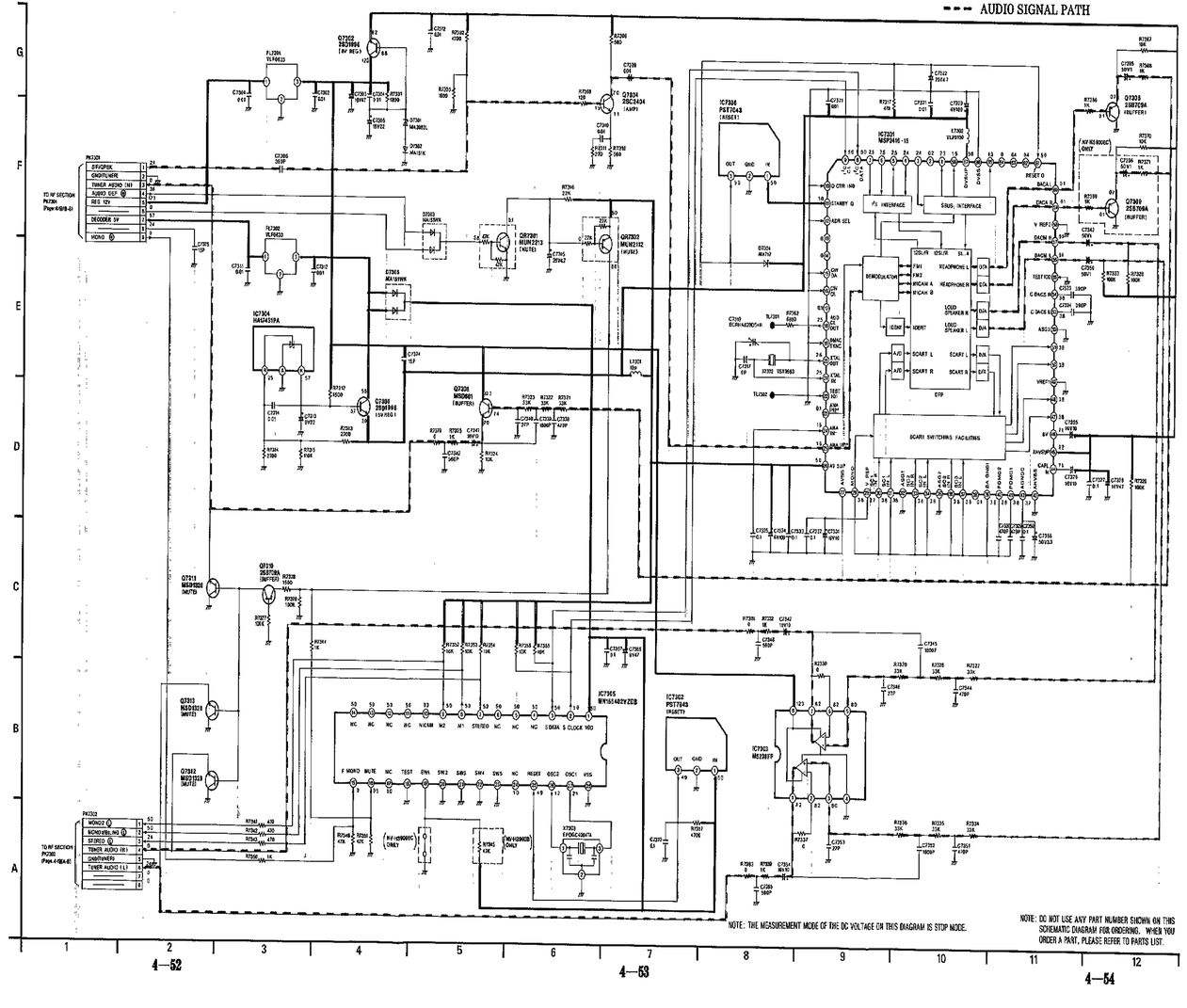
C

B

A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

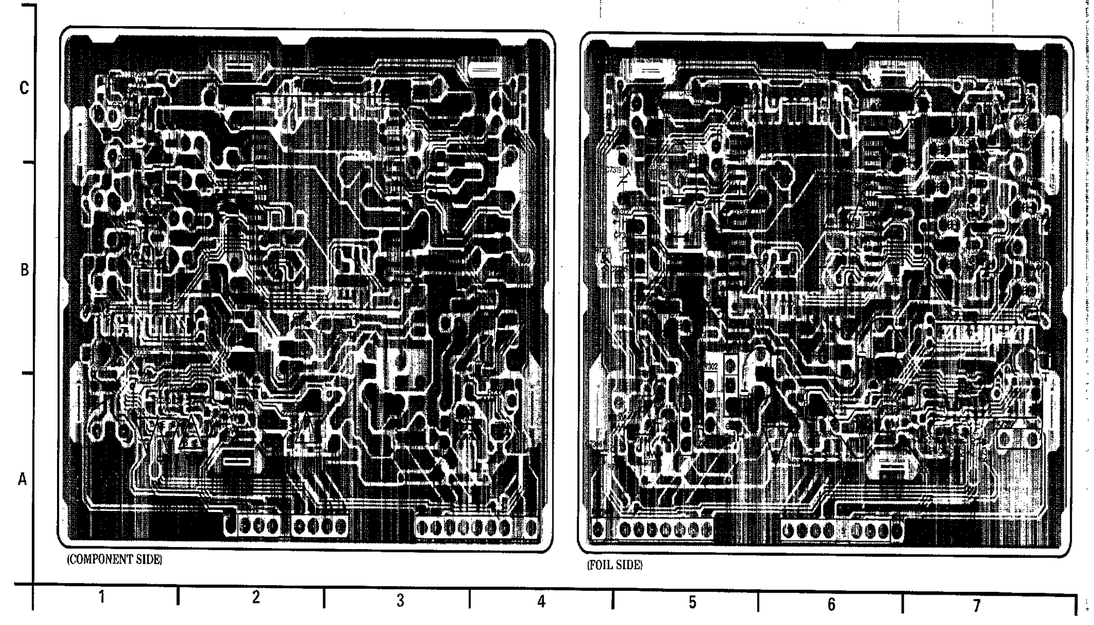
4-17. NICAM DECODER PACK SCHEMATIC DIAGRAM


AUDIO SIGNAL PATH
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-18. NICAM DECODER PACK C.B.A. (VEP07787K: NV-HS900B)(VEP07787J: NV-HS900EC)

NICAM DECODER PACK C.B.A.			
Transistor		IC7303	B-1
Q7301	B-5	IC7304	B-5
Q7302	B-5	IC7305	B-7
Q7304	A-5	IC7306	B-5
Q7305	C-7	Test Point	
Q7308	B-5	TL7301	B-5
Q7309	B-5	TL7302	C-5
Q7310	A-2	Adjustment	
Q7311	A-1	C7319	B-5
Q7312	A-1	Connector	
Q7313	A-1	PK7201	A-3
Transistor & Resistor		PK7301	A-5
QR7201	A-5	PK7302	A-2
QR7302	A-2	PK7302	A-5
Integrated Circuit			
IC7301	C-2		
IC7302	B-5		

ADDRESS INFORMATION



TV SYSTEM SELECT

IC7305		TV SYSTEM	SOUND MODULATION
SW1	SW2		
L	L	B/G	FM-MONO/NICAM GERMAN MULTIPLEX
H	L	I	FM-MONO/NICAM
*	H	M	FM-MONO

*: DO NOT CARE

FM-MONO MODE SELECT

IC7305 SW3	FM-MONO MODE	FM-MONO SOURCE
L	INT	SIF (IF INPUT1, IF INPUT2)
H	EXT	AUDIO MULTI (MONO IN)

SIF INPUT SELECT

IC7305 SW4	SIF INPUT
L	IF INPUT 1
H	IF INPUT 2

AUDIO OUTPUT SELECT

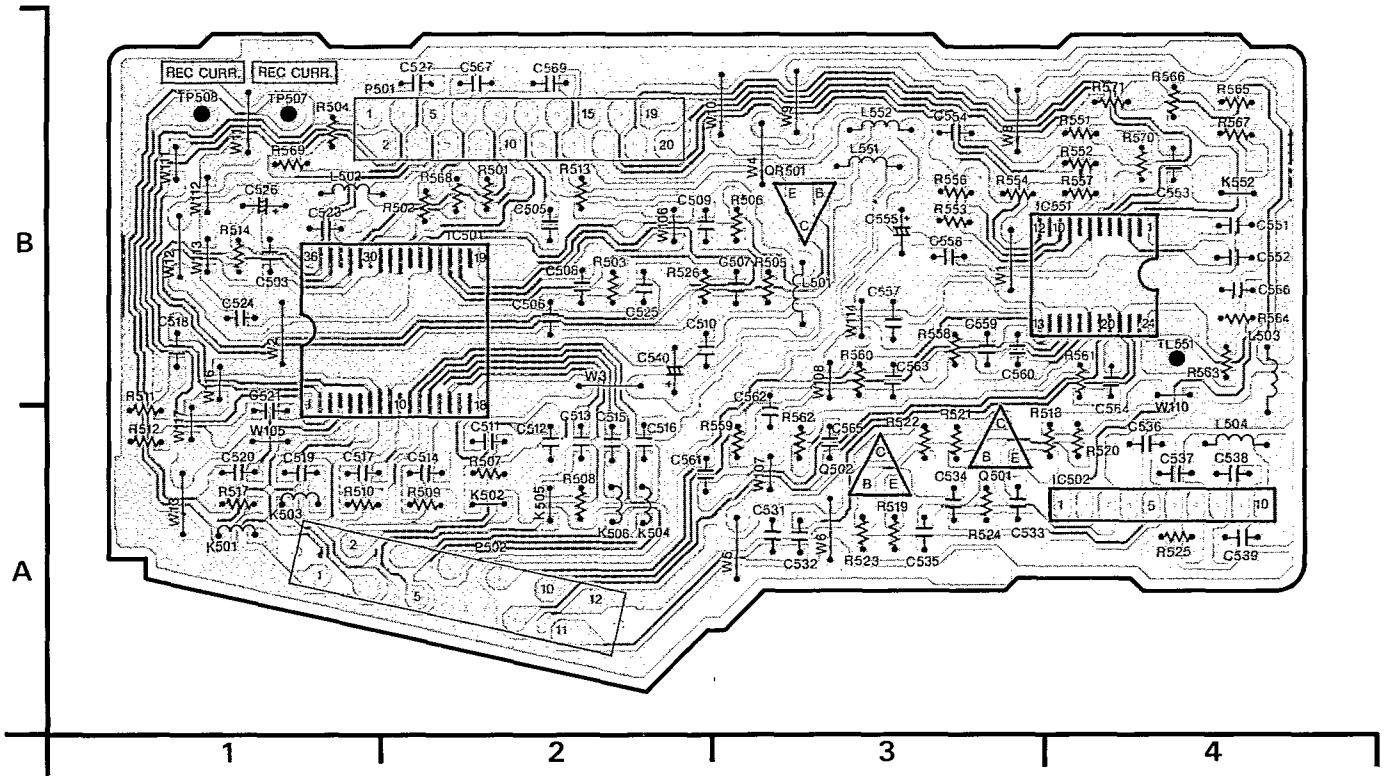
INPUT TV SYSTEM	SOUND MODULATION	FM-MONO MODE	MAIN OUTPUT		SUB OUTPUT	
			INPUT SOURCE	MATRIX	INPUT SOURCE	MATRIX
B/G	MONO	INT	IF INPUT 1/2 (FM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	MONO IN	MONAURAL	MONO IN	MONAURAL
	NICAM STEREO	INT	IF INPUT 1/2 (NICAM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	STEREO	MONO IN	MONAURAL
	NICAM M1/DATA	INT	IF INPUT 1/2 (NICAM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	MONAURAL	MONO IN	MONAURAL
	NICAM M1/M2	INT	IF INPUT 1/2 (NICAM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	STEREO	MONO IN	MONAURAL
	NICAM DATA	INT	IF INPUT 1/2 (FM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	MONO IN	MONAURAL	MONO IN	MONAURAL
	STEREO	INT	IF INPUT 1/2 (FM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
	BILINGUAL	INT	IF INPUT 1/2 (FM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
I	MONO	INT	IF INPUT 1/2 (FM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	MONO IN	MONAURAL	MONO IN	MONAURAL
	NICAM STEREO	INT	IF INPUT 1/2 (NICAM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	STEREO	MONO IN	MONAURAL
	NICAM M1/DATA	INT	IF INPUT 1/2 (NICAM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	MONAURAL	MONO IN	MONAURAL
	NICAM M1/M2	INT	IF INPUT 1/2 (NICAM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	STEREO	MONO IN	MONAURAL
	NICAM DATA	INT	IF IMPUT 1/2 (FM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	MONO IN	MONAURAL	MONO IN	MONAURAL
M	MONO	INT	IFINPUT 1/2 (FM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL

Note: When the IC7305-15 (F MONO) is high, both the MAIN OUTPUT and the SUB OUTPUT apply the FM-MONO audio.

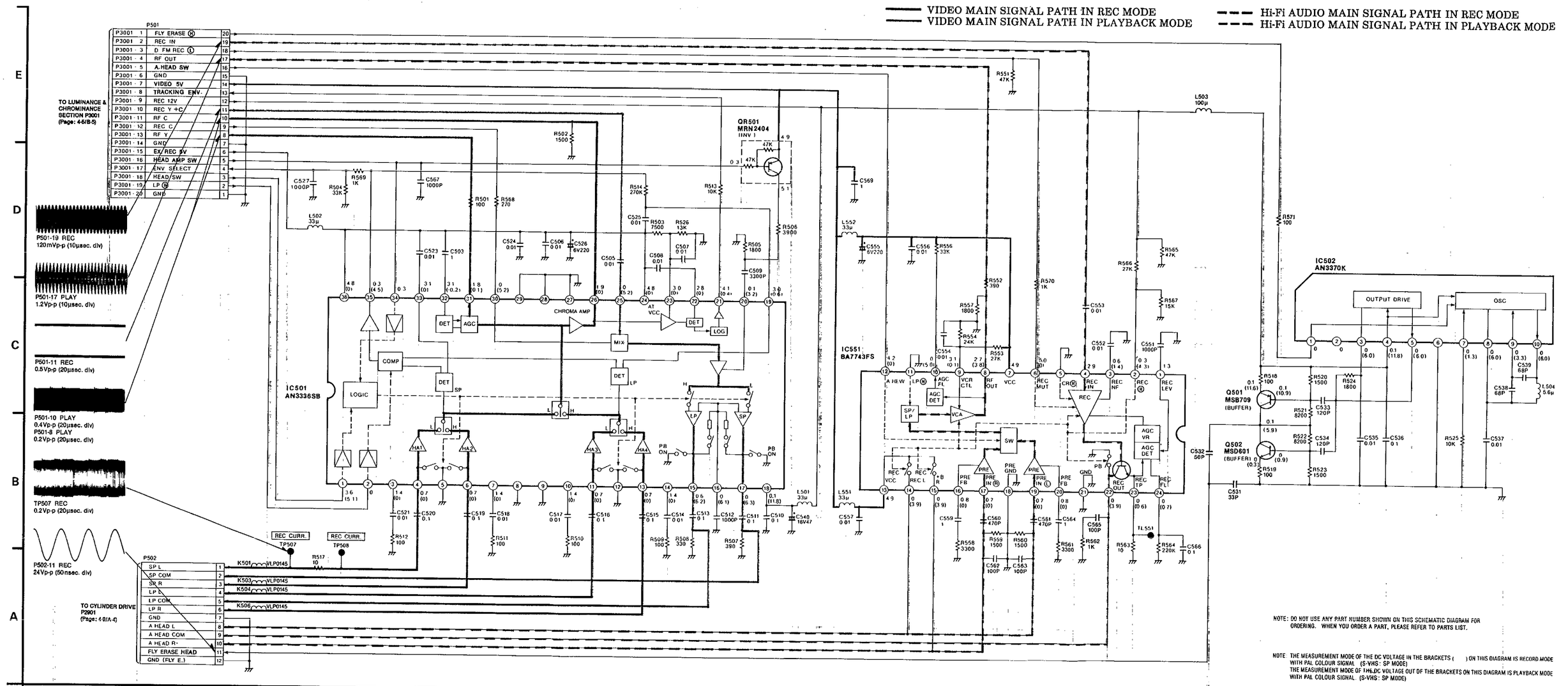
4-19. HEAD AMP C.B.A. (VEP05176G)

HEAD AMP C.B.A.	
Transistor	
Q501 Q502	A-3 A-3
Transistor & Resistor	
QR501	B-3
Integrated Circuit	
IC501 IC502 IC551	B-1 A-4 B-4
Test Point	
TL551 TP507 TP508	B-4 B-1 B-1
Connector	
P501 P502	B-2 A-1

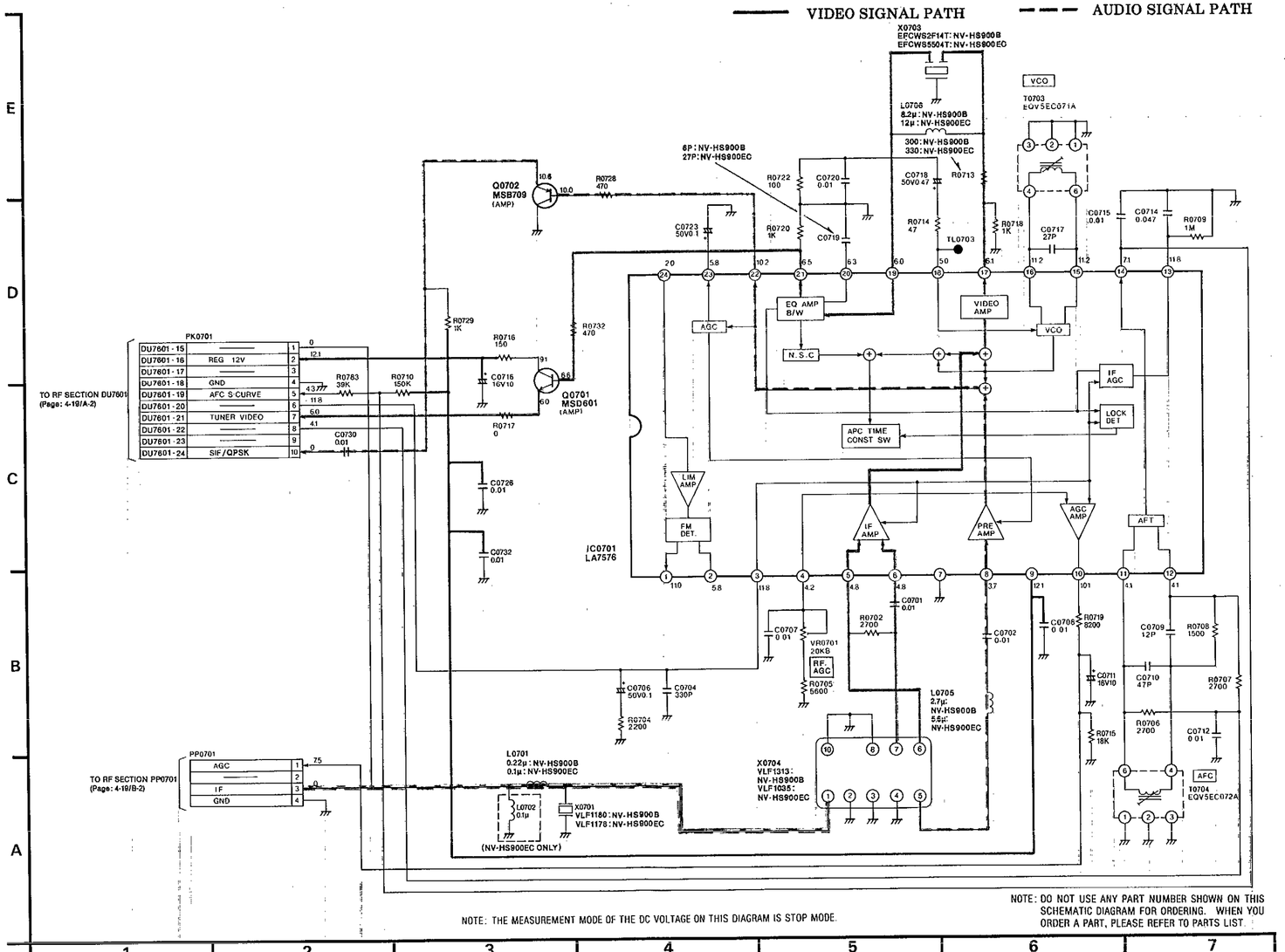
ADDRESS INFORMATION



4-20. HEAD AMP SCHEMATIC DIAGRAM



4-21. TV DEMODULATOR PACK SCHEMATIC DIAGRAM



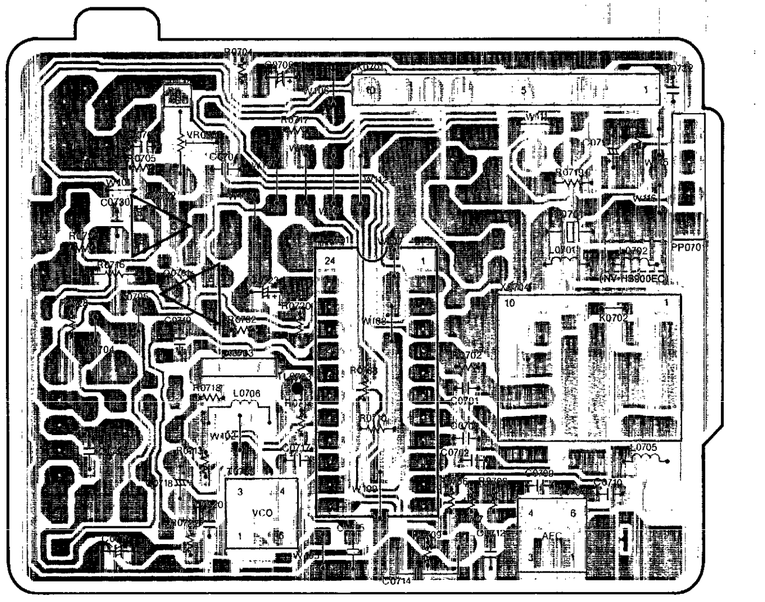
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

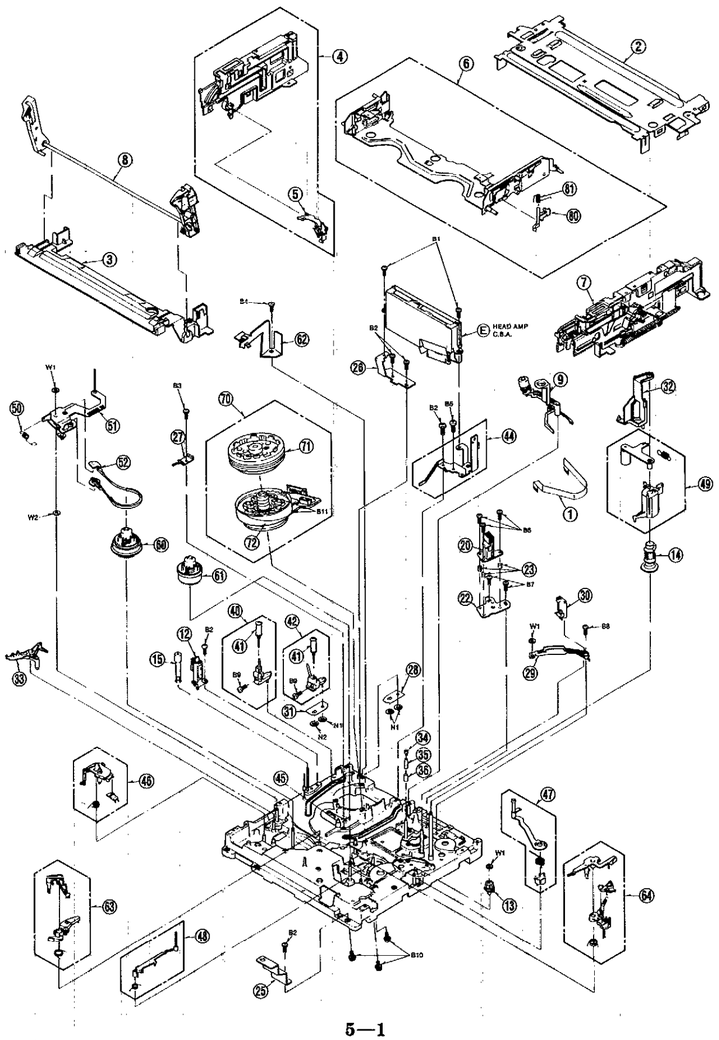
4-22. TV DEMODULATOR PACK C.B.A. (VEP07801Y: NV-HS900B)(VEP07801AB: NV-HS900EC)

TV DEMODULATOR PACK C.B.A.	
Transistor	
Q0701 Q0702	B-1 B-1
Integrated Circuit	
IC0701	B-2
Test Point	
TL0703	B-2
Adjustment	
T0703 T0704 VR0701	A-2 A-3 C-1
Connector	
PK0701 PP0701	C-2 B-3

ADDRESS INFORMATION



SECTION 5
EXPLODED VIEWS & PARTS LIST
5-1. EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST
❶ CHASSIS PARTS SECTION (1)



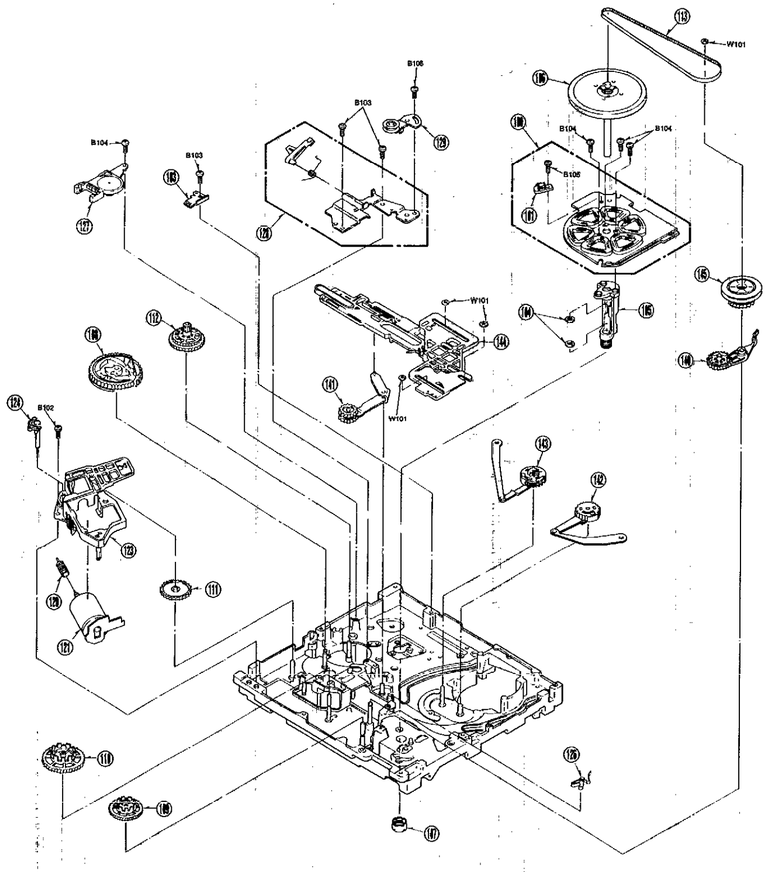
Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1 (1)	VWJ0743	FLAT CARD CABLE (6P)	1	P4003-P1501
2 (1)	VMA8644	TOP PLATE	1	
3 (1)	VMA8787	CASSETTE GUIDE	1	
4 (1)	VXA4650	SIDE PLATE (L) UNIT	1	
5 (1)	VML2902	OPENER LEVER	1	
6 (1)	VXA4661	CASSETTE HOLDER PLATE UNIT	1	
7 (1)	VXA4806	SIDE PLATE (R) UNIT	1	
8 (1)	VXP1339	MAIN SHAFT UNIT	1	
9 (1)	VXL2440	CLEANER ARM UNIT	1	
12 (1)	VBS0052	FE HEAD	1	
13 (1)	VDG0871	CARRIABE CONNECTION GEAR	1	
14 (1)	VDG0886	PINCH CAM GEAR	1	
15 (1)	VXP1402	IMPEDANCE ROLLER UNIT	1	
20 (1)	VED0217	A/C HEAD (I) UNIT	1	
22 (1)	VMA8824	A/C HEAD BASE	1	
23 (1)	VMB2515	A/C HEAD SPRING	3	
25 (1)	VMA8761	MOUNT ANGLE	1	
26 (1)	VMA9158	HEAD AMP MOUNT ANGLE (L)	1	
27 (1)	VMC0917	EARTH SPRING	1	
28 (1)	VMA8874	INCLIND BASE HOLDER (S)	1	
29 (1)	VMD2078	PS STOPPER BASE	1	
30 (1)	VXA4927	PS POST STOPPER	1	
31 (1)	VMA8873	INCLIND BASE HOLDER (T)	1	
32 (1)	VMD2101	OPENER PIECE	1	
33 (1)	VML2776	TENSION SPRING ARM	1	
34 (1)	VMX1544	P4 UPPER LIMITER	1	
35 (1)	VMX2175	P4 SLEEVE	1	
36 (1)	VMX2176	P4 LOWER LIMITER	1	
40 (1)	VXA5245KIT	INCLINED BASE (S) UNIT	1	OR VXA4982KIT
41 (1)	VXP1415	ROLLER POST	2	
42 (1)	VXA5247KIT	INCLINED BASE (T) UNIT	1	OR VXA4984KIT
44 (1)	VXA4974	HEAD AMP MOUNT ANGLE (R) U	1	
45 (1)	VMS5383	CASSETTE POSITION FIXTURE	1	
46 (1)	VXL2310	REVIEW ARM UNIT	1	
47 (1)	VXL2306	PS ARM UNIT	1	
48 (1)	VXL2394	TAKE UP TENSION REGULATOR	1	
49 (1)	VXL2246	PINCH ARM UNIT	1	
50 (1)	VMB2434	TENSION SPRING	1	
51 (1)	VXL2309	TENSION ARM (I) UNIT	1	
52 (1)	VXZ0310	TENSION BAND UNIT	1	
60 (1)	VXR0236	SUPPLY REEL TABLE UNIT	1	
61 (1)	VXR0237	TAKE UP REEL TABLE UNIT	1	
62 (1)	VXS0241	EARTH PLATE	1	
63 (1)	VXZ0312	SUPPLY BRAKE ARM UNIT	1	
64 (1)	VXZ0313	TAKE UP BRAKE ARM UNIT	1	
70 (1)	VEG1219	CYLINDER UNIT	1	
71 (1)	VXP1561	UPPER CYLINDER UNIT	1	
72 (1)	VSC4137	CYLINDER SHIELD PLATE	1	
80 (1)	VML2680	RELEASE LEVER	1	
81 (1)	VMB2013	RELEASE SPRING	1	
B1 (1)	VHD0773	SCREW	2	
B2 (1)	XTV26+6F	SCREW	5	
B3 (1)	XTV26+4F	SCREW	1	
B4 (1)	XTN3+8FFZ	SCREW	1	
B5 (1)	XTV26+10F	SCREW	1	
B6 (1)	VHD0762	SCREW	3	
B7 (1)	XTV26+6FZ	SCREW	2	
B8 (1)	XTV26+8F	SCREW	2	
B9 (1)	XQN2+AJ4	SCREW	2	
B10 (1)	VHD0342	SCREW	3	
B11 (1)	XYNV0029	SCREW	2	
N1 (1)	VHN0192	NUT	3	
N2 (1)	VHN0193	NUT	1	
W1 (1)	VMX2208	WASHER	3	
W2 (1)	XMGV26D56	WASHER	1	

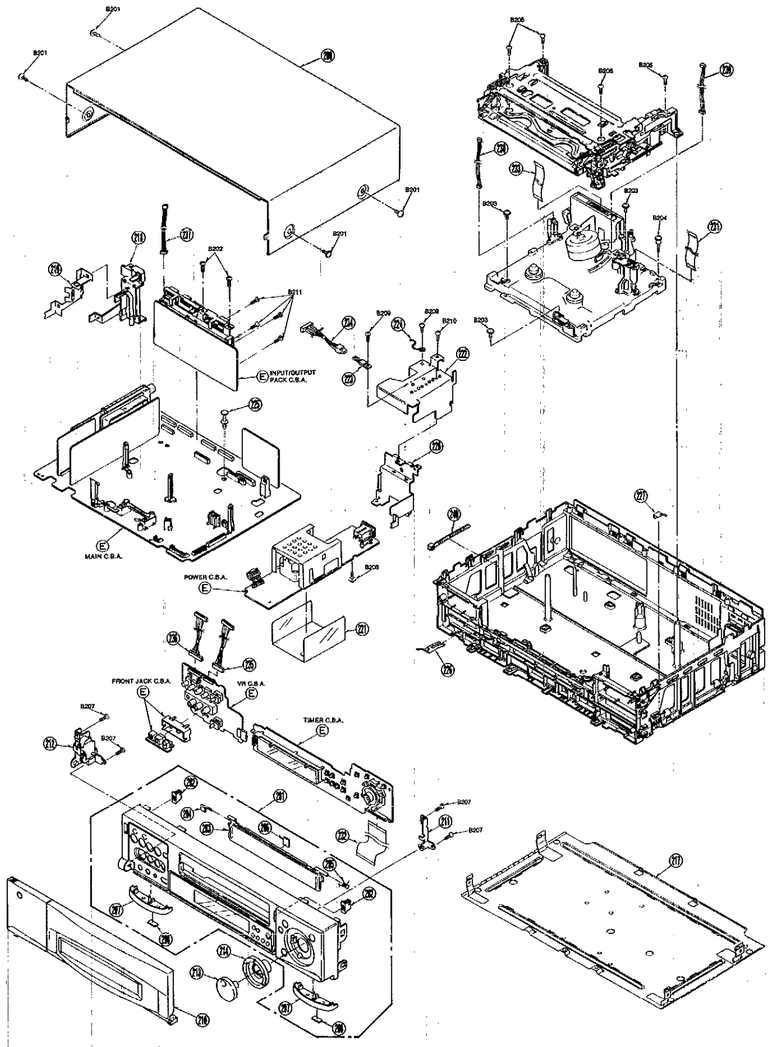
Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
100 (2)	VEK5927	CAPSTAN STATOR UNIT	1	
101 (2)	VBK0061	FB HEAD	1	
103 (2)	VMA8930	ROTOR STOPPER	1	
104 (2)	VMX1927	OIL SEAL	2	
105 (2)	VXD0140	HOUSING UNIT	1	
106 (2)	VXP1519	CAPSTAN ROTOR UNIT	1	
107 (2)	VXQ0297	THRUST SCREW UNIT	1	
108 (2)	VDG0913	MAIN CAM GEAR	1	
109 (2)	VDG0956	SUPPLY REEL GEAR	1	
110 (2)	VDG0957	TAKE UP REEL GEAR	1	
111 (2)	VDG0868	WORM WHEEL GEAR	1	
112 (2)	VDG0885	SUB CAM GEAR	1	
113 (2)	VDV0235	TIMING BELT	1	
120 (2)	VDG0866	WORM GEAR	1	
121 (2)	VEM0427	LOADING MOTOR (I) UNIT	1	
123 (2)	VMD1942	MOTOR BRACKET	1	
124 (2)	VMD2552	S-VHS SW ACTUATER	1	
126 (2)	VML2725	IDLER CONTROL LEVER	1	
127 (2)	VSS0365	MODE SW	1	
128 (2)	VXA5138	SS BRAKE BASE UNIT	1	
129 (2)	VXA4799	TENSION ROLLER UNIT	1	
140 (2)	VXL2378	IDLER ARM UNIT	1	
141 (2)	VXL2372	DIRECT LEVER UNIT	1	
142 (2)	VXL2299	SUPPLY LOADING ARM UNIT	1	
143 (2)	VXL2300	TAKE UP LOADING ARM UNIT	1	
144 (2)	VXL2307	MAIN LEVER UNIT	1	
145 (2)	VXP1409	CENTRE CLUTCH	1	
B102 (2)	XTV26+8F	SCREW	1	
B103 (2)	XTV26+6F	SCREW	3	
B104 (2)	VHD0753	SCREW	4	
B105 (2)	VHD0754	SCREW	1	
B106 (2)	XSB26+4FZ	SCREW	1	
W101 (2)	VMX2208	WASHER	4	

❷ CHASSIS PARTS SECTION (2)



❸ CASING PARTS SECTION



Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
200 (3)	V9W1150	TOP PANEL	1	
201 (3)	VYP5931	FRONT PANEL (1) UNIT	1	
202 (3)	V902216	DOOR MAGNET	2	
203 (3)	VKF2551	BLINDER PANEL	1	
204 (3)	VDK0148	BLINDER CAM	1	
205 (3)	VMB2521	BLINDER SPRING	1	
206 (3)	VMT0502	BLINDER CUSHION	1	
207 (3)	VKA0197	LEG	2	
208 (3)	VKA0122	FOOT	2	
210 (3)	VYF2331	DOOR PANEL UNIT	1	NV-HS900B
210 (3)	VYF2333	DOOR PANEL UNIT	1	NV-HS900EC
211 (3)	VXA5429	DOOR ANGLE (R) UNIT	1	
212 (3)	VXA5431	DOOR ANGLE (L) UNIT	1	
213 (3)	VGU6966	JOG DIAL	1	
214 (3)	VGU6967	SHUTTLE RING	1	
217 (3)	VKU0412	BOTTOM PLATE	1	
218 (3)	VJH0832	ANTENNA JACK PLATE	1	
219 (3)	VMC1213	ANTENNA EARTH SPRING	1	
220 (3)	VNP4717	AC PLATE	1	
221 (3)	VMZ2394	POWER BARRIER	1	
222 (3)	VSC4403	HEAT SINK	1	
223 (3)	2SB1370YD01E	POWER TRANSISTOR	1	
224 (3)	VJR3	CLAMPER	1	
225 (3)	VMX2233	C.B.A. SPACER	1	
226 (3)	VMC1062	JACK EARTH SPRING	1	
227 (3)	VMC1065	POWER EARTH SPRING	1	
231 (3)	VMJ0804	FLAT CARD CABLE 15P	1	P2004-P1507
232 (3)	VMJ0854	FLAT CARD CABLE 32P	1	P3003-P7501
233 (3)	VMJ0956	FLAT CARD CABLE 20P	1	P3001-P501
234 (3)	VEE8564	WIRE CABLE	1	P2003-POWER TR.
235 (3)	VEE9371	WIRE CABLE	1	P3902-P6502
236 (3)	VEE9372	WIRE CABLE	1	P4001-P6503
237 (3)	VEE9373	WIRE CABLE	1	P6002-P3901
238 (3)	VEE9374	WIRE CABLE	1	P4002-P1509
239 (3)	VEE9375	WIRE CABLE	1	P2002-P2902
240 (3)	VJF0215	BAIND	1	
B201 (3)	XTW3+10TFZ	SCREW	4	
B202 (3)	VHD0773	SCREW	2	
B203 (3)	VHD0168	SCREW	3	
B204 (3)	VHD0874	SCREW	1	
B205 (3)	XTV2B+8FR	SCREW	3	
B206 (3)	XTV26+10F	SCREW	1	
B207 (3)	XTN2+5GFZ	SCREW	4	
B208 (3)	VHD0418	SCREW	1	
B209 (3)	XTV3+10J	SCREW	2	
B210 (3)	XTV4+10F	SCREW	1	
B211 (3)	XTV3+8GFZ	SCREW	4	

Note: 1. * Be sure to make your orders of replacement parts according to this list.
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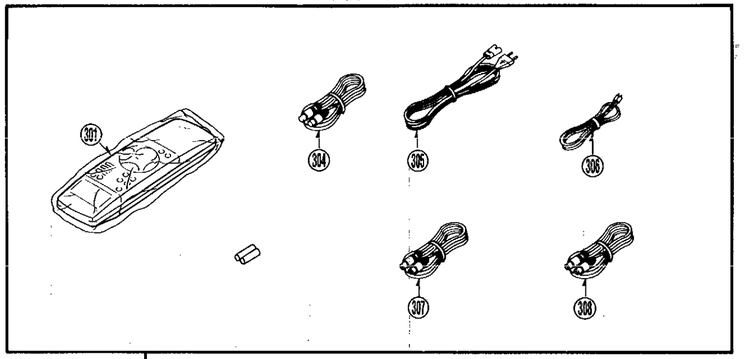
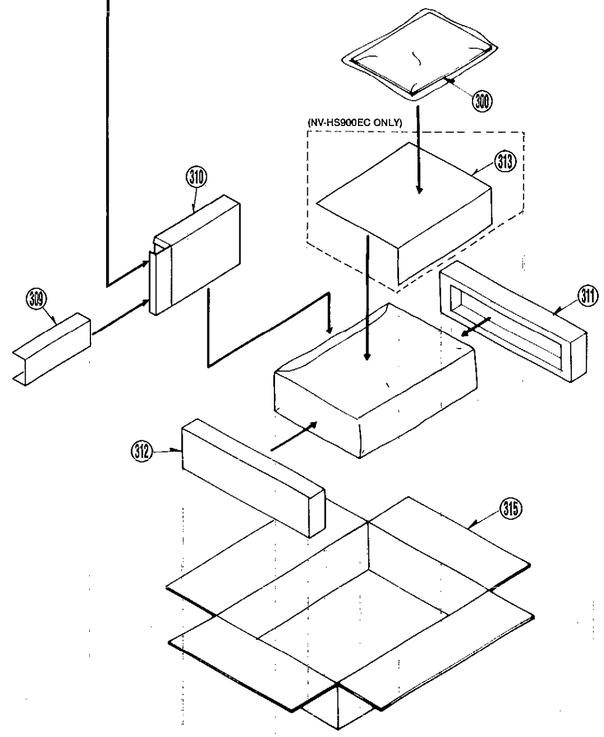
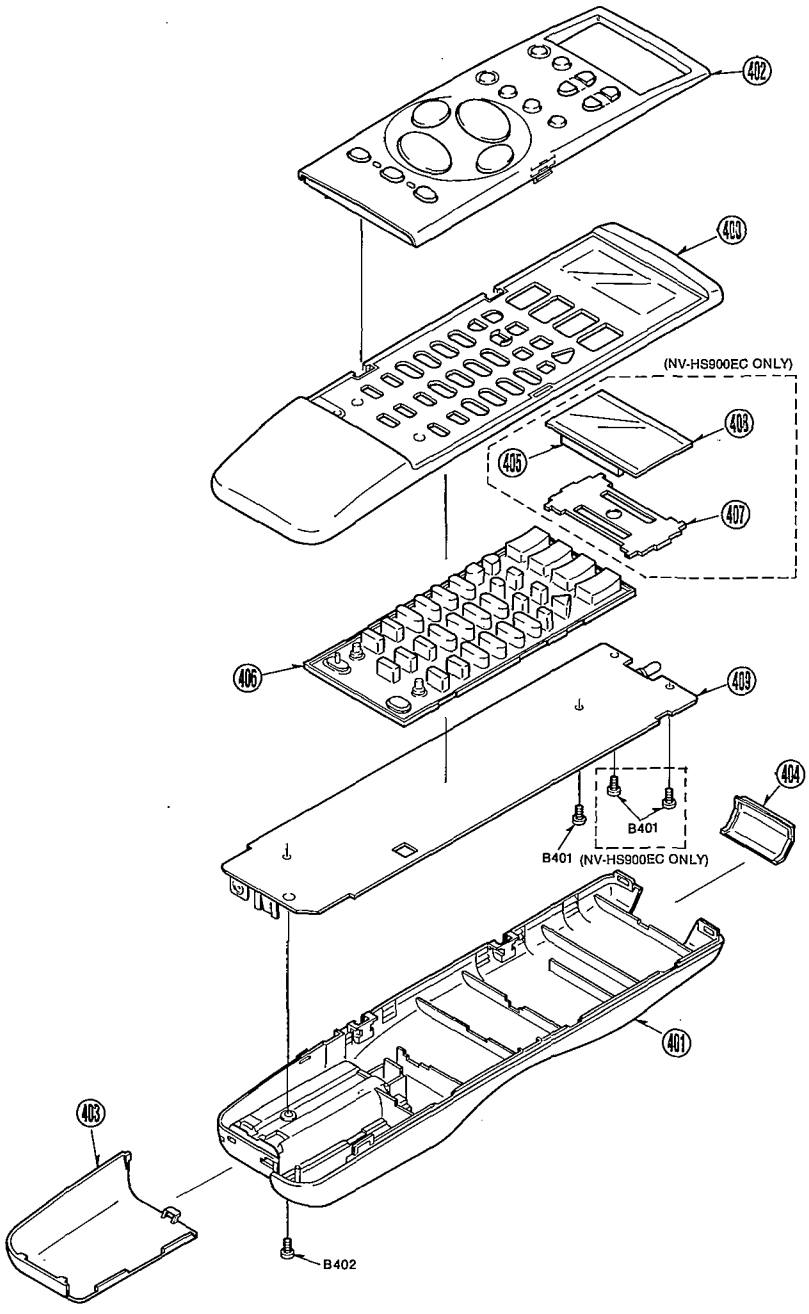
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 300 (4)	VQT6611	OPERATING INSTRUCTIONS (ENGLISH)	1	NV-HS900B
⚠ 300 (4)	VQT6155	OPERATING INSTRUCTIONS (ENGLISH/FRENCH/DUTCH)	1	NV-HS900EC
⚠ 300 (4)	VQT6612	OPERATING INSTRUCTIONS (SPANISH)	1	NV-HS900EC
⚠ 300 (4)	VQT6613	OPERATING INSTRUCTIONS (SWEDISH/DANISH/FINNISH)	1	NV-HS900EC
301 (4)	VEQ1694	REMOTE CONTROLLER	1	NV-HS900B
301 (4)	VEQ1677	REMOTE CONTROLLER	1	NV-HS900EC
304 (4)	VJA0728	DIN RF CABLE	1	NV-HS900B
304 (4)	VJA0963	DIN RF CABLE	1	NV-HS900EC
⚠ 305 (4)	VJA0733	AC CORD	1	NV-HS900B
⚠ 305 (4)	VJA0664	AC CORD	1	NV-HS900EC
306 (4)	VJA0231	AUDIO CABLE	1	
307 (4)	VJA0658	S-VIDEO 4P CABLE	1	
308 (4)	VJA0787	EDIT 5P CABLE	1	
309 (4)	VPM3773	ACCESSORIES PAD	1	
310 (4)	VPK0825	ACCESSORIES PAKING	1	
311 (4)	VPM4184	CUSHION (R)	1	
312 (4)	VPM4185	CUSHION (L)	1	
313 (4)	VPM4460	PAD	1	NV-HS900EC
315 (4)	VPG8049	PACKING	1	NV-HS900B
315 (4)	VPG8050	PACKING	1	NV-HS900EC
		SERVICE FIXTURES & TOOLS		
	VFJ8125H3F	VHS ALIGNMENT TAPE(PAL)	1	
	VFK0335	RETAINING RING REMOVER (3MM/4MM)	1	
	VFK0329	POST ADJUSTMENT SCREWDRIVE	1	
	VFK0326	HEX WRENCH SET	1	
	VFK0132	BACK TENSION METER	1	
	VFK27	HEAD CLEANING STICK	1	
	VFK1024	MORLYTONE GREASE	1	
	VFK0341	UPPER CYLINDER REMOVER	1	
	VFK0680	WHITE GREASE	1	
	VFK0851	CENTRE FIXING TOOL	1	
	VFK0330	FINE ADJUSTMENT GEAR DRIVE	1	
	VFK1139	20P EXTENSION CABLE	1	
	VFK0678	18P EXTENSION CABLE	1	
	VFK0917	11P EXTENSION CABLE	1	
	VFK0918	17P EXTENSION CABLE	1	

❹ PACKING PARTS SECTION





❺ REMOTE CONTROLLER UNIT



Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
400 (5)	VYK6616	TOP COVER UNIT	1	NV-HS900B
400 (5)	VYK6514	TOP COVER UNIT	1	NV-HS900EC
401 (5)	VYK5446	BOTTOM COVER UNIT	1	
402 (5)	VYK7092	DOOR PANEL UNIT	1	NV-HS900B
402 (5)	VYK7104	DOOR PANEL UNIT	1	NV-HS900EC
403 (5)	VKF2115	BATTERY COVER	1	
404 (5)	VKW1802	IR WINDOW	1	
405 (5)	VSQ0830	CONDUCTIVE RUBBER	2	NV-HS900EC
406 (5)	VSP0870	RUBBER CONTACT	1	NV-HS900B
406 (5)	VSP0861	RUBBER CONTACT	1	NV-HS900EC
407 (5)	VSQ0829	LCD SPACER	1	NV-HS900EC
408 (5)	VSL0319A	LCD	1	NV-HS900EC

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
409 (5)	————	REMOTE CONTROLLER C. B. A.	1	THE C. B. A. IS NOT SUPPLIED AS SPARE PART.
B401 (5)	XTB2+6G	SCREW	1	NV-HS900B
B401 (5)	XTB2+6G	SCREW	3	NV-HS900EC
B402 (5)	XTB2+8GFZ	SCREW	1	

5-2. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE : Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS(uf), P=uuF.
4. The P.C. Board units marked width "■" show below the main assembled parts.
5. The marking (RTL) indicaters the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP03B73C	MAIN C.B.A.	1	(RTL)
		(PAGE:5-8)		NV-HS900B
				INCLUDING THE LUMINANCE
				& CHROMINANCE PACK
				C.B.A. (VEP03B74B).
				HI-FI AUDIO PACK
				C.B.A. (VEP04447PR).
				NICAM DECODER PACK
				C.B.A. (VEP07787K).
				TV DEMODULATOR PACK
				C.B.A. (VEP07801Y).
■	VEP03B74B	LUMINACE & CHROMINANCE	1	(RTL)
		PACK C.B.A.		INCLUDED IN MAIN
				C.B.A. (VEP03B73C).
■	VEP04447PR	HI-FI AUDIO PACK C.B.A.	1	(RTL)
				INCLUDED IN MAIN
				C.B.A. (VEP03B73C).
■	VEP07787K	NICAM DECODER PACK C.B.A.	1	(RTL)
				INCLUDED IN MAIN
				C.B.A. (VEP03B73C).
■	VEP07801Y	TV DEMODULATOR PACK C.B.A.	1	(RTL)
				INCLUDED IN MAIN
				C.B.A. (VEP03B73C).
■	VEP03B73D	MAIN C.B.A.	1	(RTL)
		(PAGE:5-16)		NV-HS900EG
				INCLUDING THE LUMINANCE
				& CHROMINANCE PACK
				C.B.A. (VEP03B74A).
				HI-FI AUDIO PACK
				C.B.A. (VEP04447PR).
				NICAM DECODER PACK
				C.B.A. (VEP07787J).
				TV DEMODULATOR PACK
				C.B.A. (VEP07801AB).
■	VEP03B74A	LUMINACE & CHROMINANCE	1	(RTL)
		PACK C.B.A.		INCLUDED IN MAIN
				C.B.A. (VEP03B73D).
■	VEP04447PR	HI-FI AUDIO PACK C.B.A.	1	(RTL)
				INCLUDED IN MAIN
				C.B.A. (VEP03B73D).
■	VEP07787J	NICAM DECODER PACK C.B.A.	1	(RTL)
				INCLUDED IN MAIN
				C.B.A. (VEP03B73D).
■	VEP07801AB	TV DEMODULATOR PACK C.B.A.	1	(RTL)
				INCLUDED IN MAIN
				C.B.A. (VEP03B73D).
■	VEP03B75C	INPUT/OUTPUT C.B.A.	1	(RTL)
		(PAGE:5-25)		NV-HS900B
■	VEP03B75A	INPUT/OUTPUT C.B.A.	1	(RTL)
		(PAGE:5-26)		NV-HS900EG
■	VEP05176G	HEAD AMP C.B.A.	1	(RTL)
		(PAGE:5-27)		
■	VEP07808C	TIMER C.B.A.	1	(RTL)
		(PAGE:5-27)		NV-HS900B
■	VEP07808D	TIMER C.B.A.	1	(RTL)
		(PAGE:5-28)		NV-HS900EG
■	VEP06A17A	VR C.B.A.	1	(RTL)
		(PAGE:5-29)		INCLUDING THE FRONT
				JACK C.B.A. (VEP04531A).
■	VEP04531A	FRONT JACK C.B.A.	1	(RTL)
				INCLUDED IN VR C.B.A.
				(VEP06A17A).
⚠ ■	VEP01639A	POWER C.B.A.	1	(RTL)
		(PAGE:5-29)		
■	VEX0231	CYLINDER DRIVE C.B.A.	1	(RTL)
		(PAGE:5-30)		
■	————	MOTOR C.B.A.	1	C.B.A. IS INCLUDED
		(PAGE:5-30)		IN LOADING MOTOR (1)
				UNIT (VEM0427)
⚠DU7601	ENG47211GR	TUNER	1	NV-HS900B
⚠DU7601	ENG47232G	TUNER	1	NV-HS900EG
⚠F1101	XBA2G16TH15	FUSE	1	
■	VEP03B73C	MAIN C.B.A.		(RTL)
				NV-HS900B
C301	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C302	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C303	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C304	ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C305	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C306	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C307	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308	ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C310	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C311	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C312	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C313	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C316	ECCF1H470JC	C.CAPACITOR 50V 47P	1	
C318	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C319	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C321,22	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C324	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C325,26	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C329	ECEA1HKAR33	E.CAPACITOR 50V 0.33U	1	
C331	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C332	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C335	ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C336	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C337	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C340	ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C341	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C344	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C345,46	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C348	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C353,54	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C0701,02	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0704	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C0706	ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0707,08	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0709	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C0710	ECUX1H470JPV	C.CAPACITOR CH 50V 47P	1	
C0711	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0712	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0714	ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0715	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C0716	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0717	ECUX1H270JPV	C.CAPACITOR CH 50V 27P	1	
C0718	ECEA1HKSR47	E.CAPACITOR 50V 0.47U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C0719	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	1	
C0720	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C0723	ECEA1HKA0R1	E. CAPACITOR 50V 0.1U	1	
C0726	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C0730	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C0732	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C802	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C803	ECEA0JKA221	E. CAPACITOR 6.3V 220U	1	
C804	ECUM1H820JCN	C. CAPACITOR CH 50V 82P	1	
C805	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C808	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	1	
C809	ECEA1HKA4R7	E. CAPACITOR 50V 4.7U	1	
C810	ECEA0JKA221	E. CAPACITOR 6.3V 220U	1	
C812, 13	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C814	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C815	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C816	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C817	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C818	ECEA1HKA0R1	E. CAPACITOR 50V 0.1U	1	
C819	ECQB1H332JZ	P. CAPACITOR 50V 3300P	1	
C820	ECUM1H331JCN	C. CAPACITOR CH 50V 330P	1	
C821-23	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C824	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C825-27	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C828, 29	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	2	
C830	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C831	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C832	ECQV1H154JM	P. CAPACITOR 50V 0.15U	1	
C833	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C836	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1	
C839	ECEA1HKA4R7	E. CAPACITOR 50V 4.7U	1	
C840	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C841	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C842	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C843	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C845	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C846	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C847	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C848	ECEA1HKA0R1	E. CAPACITOR 50V 0.1U	1	
C849	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C850	ECEA1HKA0R1	E. CAPACITOR 50V 0.1U	1	
C851-53	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C854	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C855-57	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C858	ECUM1H681JCN	C. CAPACITOR CH 50V 680P	1	
C1001	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C1002	ECEA1CU470	E. CAPACITOR 16V 47U	1	
C1003	ECEA1CU101	E. CAPACITOR 16V 100U	1	
C1004	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C1005	ECEA1AKA220	E. CAPACITOR 10V 22U	1	
C1006	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C1007	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C1008	ECEA1AKA220	E. CAPACITOR 10V 22U	1	
C1009	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C1013	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C1018	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C1020	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C1021	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C1022	ECEA1AKA220	E. CAPACITOR 10V 22U	1	
C1023	VCE0073	E. CAPACITOR	1	
C2004	ECEA0JKA221	E. CAPACITOR 6.3V 220U	1	
C2005	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C2006	ECQV1H683JM	P. CAPACITOR 50V 0.068U	1	
C2007, 08	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	2	
C2009, 10	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	2	
C2011	ECEA1EKA4R7	E. CAPACITOR 25V 4.7U	1	
C2012, 13	ECEA1EKN3R3	E. CAPACITOR 25V 3.3U	2	
C2014	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C2015	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C2016	ECEA0JKA221	E. CAPACITOR 6.3V 220U	1	
C2017	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C2018	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1	
C2019	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C2020	ECUM1H392KBN	C. CAPACITOR CH 50V 3900P	1	
C2021	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2022, 23	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	2	
C2027	ECEA1HKAR47	E. CAPACITOR 50V 0.47U	1	
C2028	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C2029	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C2030	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C2501, 02	ECEA1HKA2R2	E. CAPACITOR 50V 2.2U	2	
C2503	ECA1EM470	E. CAPACITOR 25V 47U	1	
C2504	ECEA1HKNR22	E. CAPACITOR 50V 0.22U	1	
C2505	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C2507, 08	ECUM1E333KBN	C. CAPACITOR CH 25V 0.033U	2	
C2509	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C2510	ECA0JM221	E. CAPACITOR 6.3V 220U	1	
C2513-15	ECUM1E333KBN	C. CAPACITOR CH 25V 0.033U	3	
C2516, 17	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	2	
C2518, 19	ECUM1C474ZFN	C. CAPACITOR CH 16V 0.47U	2	
C2521	ECA1CM221	E. CAPACITOR 16V 220U	1	
C2522	ECEA1HKA2R2	E. CAPACITOR 50V 2.2U	1	
C2523	ECUM1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C2524	ECQV1H683JM	P. CAPACITOR 50V 0.068U	1	
C3001, 02	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C3003	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C3004	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3005	ECA0JM331	E. CAPACITOR 6.3V 330U	1	
C3006-08	ECEA1HKA010	E. CAPACITOR 50V 1U	3	
C3009	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3010	ECA0JM331	E. CAPACITOR 6.3V 330U	1	
C3011	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C3012	ECA0JM331	E. CAPACITOR 6.3V 330U	1	
C3013	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C3016	ECUM1H180JCN	C. CAPACITOR CH 50V 18P	1	
C3017	ECUM1H150JCN	C. CAPACITOR CH 50V 15P	1	
C3018	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C3019	ECUM1H620JCN	C. CAPACITOR CH 50V 62P	1	
C3020-22	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C3023	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C3025	ECUM1H100DCN	C. CAPACITOR CH 50V 10P	1	
C3026	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1	
C3027	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3029	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C3030	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1	
C3032, 33	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C3034	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C3035	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3036	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C3037	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C3039, 40	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C3041, 42	ECUM1H100DCN	C. CAPACITOR CH 50V 10P	2	
C3043	ECUM1H181JCN	C. CAPACITOR CH 50V 180P	1	
C3044	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	1	
C3046, 47	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C3048	ECUM1H391JCN	C. CAPACITOR CH 50V 390P	1	
C3050	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3052-56	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	5	
C3057	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3058	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3059	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C3060, 61	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C3062	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	1	
C3063	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3064	ECUM1H332KBN	C. CAPACITOR CH 50V 3300P	1	
C3065	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C3066	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3067	ECEA1HKA3R3	E. CAPACITOR 50V 3.3U	1	
C3068	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C3069	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3070	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3073, 74	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C3075, 76	ECEA1AKA330	E. CAPACITOR 10V 33U	2	
C3077	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C3079	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3080	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C3081-84	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	4	
C3085	ECUM1H180JCN	C. CAPACITOR CH 50V 18P	1	
C3086	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3087-89	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3091	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C3092	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3093	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3095	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1	
C4001	ECEA1AKA220	E. CAPACITOR 10V 22U	1	
C4002	ECEA1HKA3R3	E. CAPACITOR 50V 3.3U	1	
C4003	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C4004, 05	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C4006, 07	ECEA1CKA100	E. CAPACITOR 16V 10U	2	
C4008	ECCD2H181J	C. CAPACITOR 500V 180P	1	
C4009	ECQP1222JZ	P. CAPACITOR 100V 2200P	1	
C4010	ECQB1H223JF	P. CAPACITOR 50V 0.022U	1	
C4011	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4012	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C4013	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C4022	ECQB1H102JZ	P. CAPACITOR 50V 1000P	1	
C4023	ECQB1H103JZ	P. CAPACITOR 50V 0.01U	1	
C4024	ECEA16M33	E. CAPACITOR 16V 33U	1	
C4025	ECQV1H104JM	P. CAPACITOR 50V 0.1U	1	
C4027	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4028	ECQB1H472JF	P. CAPACITOR 50V 4700P	1	
C4029	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C4030	ECEA1AKA101	E. CAPACITOR 10V 100U	1	
C4031	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C4032	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C4501	ECQB1H152JZ	P. CAPACITOR 50V 1500P	1	
C4502	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4503	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C4504, 05	ECEA1CU470	E. CAPACITOR 16V 47U	2	
C4506	ECEA1CU100	E. CAPACITOR 16V 10U	1	
C4507	ECQB1H223JF	P. CAPACITOR 50V 0.022U	1	
C4508	ECEA1EBZ4R7	E. CAPACITOR 25V 4.7U	1	
C4509	ECEA1AU470	E. CAPACITOR 10V 47U	1	
C4510	ECQB1H103JF	P. CAPACITOR 50V 0.01U	1	
C4511	ECQB1H332JF	P. CAPACITOR 50V 3300P	1	
C4512	ECUX1H561JV	C. CAPACITOR CH 50V 560P	1	
C4513	ECUX1H681JV	C. CAPACITOR CH 50V 680P	1	
C4514	ECUX1H561JV	C. CAPACITOR CH 50V 560P	1	
C4515	ECEA1EU4R7	E. CAPACITOR 25V 4.7U	1	
C4517	ECEA1AU101	E. CAPACITOR 10V 100U	1	
C4518	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4521	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C4522	ECEA1HU3R3	E. CAPACITOR 50V 3.3U	1	
C4528	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4530	ECEA0JU470	E. CAPACITOR 6.3V 47U	1	
C4533	ECEA1CU330	E. CAPACITOR 16V 33U	1	
C4537	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C4538	ECEA1HUR47	E. CAPACITOR 50V 0.47U	1	
C4539	ECUX1C224ZFV	C. CAPACITOR CH 16V 0.22U	1	
C4541	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4545	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4551	ECQB1H223JF	P. CAPACITOR 50V 0.022U	1	
C4552	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4556	ECEA1CU100	E. CAPACITOR 16V 10U	1	
C4558	ECEA1EBZ4R7	E. CAPACITOR 25V 4.7U	1	
C4559	ECEA1AU470	E. CAPACITOR 10V 47U	1	
C4560	ECQB1H103JF	P. CAPACITOR 50V 0.01U	1	
C4561	ECQB1H332JF	P. CAPACITOR 50V 3300P	1	
C4562	ECUX1H561JV	C. CAPACITOR CH 50V 560P	1	
C4563	ECUX1H681JV	C. CAPACITOR CH 50V 680P	1	
C4564	ECUX1H561JV	C. CAPACITOR CH 50V 560P	1	
C4565	ECEA1EU4R7	E. CAPACITOR 25V 4.7U	1	
C4567	ECEA1AU101	E. CAPACITOR 10V 100U	1	
C4568	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4572	ECEA1HU3R3	E. CAPACITOR 50V 3.3U	1	
C4576	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C4583	ECEA1CU330	E. CAPACITOR 16V 33U	1	
C4585, 86	ECEA1AU101	E. CAPACITOR 10V 100U	2	
C4591	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4592	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C4593	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C4594, 95	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C4596	ECEA1CU100	E. CAPACITOR 16V 10U	1	
C4597	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C4598	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4604	ECUM1H182JN	C. CAPACITOR CH 50V 1800P	1	
C4606	ECEA0JU470	E. CAPACITOR 6.3V 47U	1	
C4611	ECQB1H182JZ	P. CAPACITOR 50V 1800P	1	
C4613	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C4616	ECUX1H102ZFV	C. CAPACITOR CH 50V 1000P	1	
C4617	ECEA1CM22	E. CAPACITOR 10V 22U	1	
C4618	ECQB1H822JZ	P. CAPACITOR 50V 8200P	1	
C4621	ECEA0JU101	E. CAPACITOR 6.3V 100U	1	
C4629	ECQB1H562JF	P. CAPACITOR 50V 5600P	1	
C4636	ECUX1H471JV	C. CAPACITOR CH 50V 470P	1	
C4638	ECQB1H822JZ	P. CAPACITOR 50V 8200P	1	
C4652, 53	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	2	
C6001	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6002	ECEA1HKA2R2	E. CAPACITOR 50V 2.2U	1	
C6004	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C6005	ECUM1H150JCN	C. CAPACITOR CH 50V 15P	1	
C6006	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6007	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6008	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C6009	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C6010	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6011	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C6012, 13	ECEA0JKA470	E. CAPACITOR 6.3V 47U	2	
C6014, 15	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C6016	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C6018	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C6019-22	ECUM1H271JCN	C. CAPACITOR CH 50V 270P	4	
C6023, 24	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C6026	ECA1EM470	E. CAPACITOR 25V 47U	1	
C6027	ECUM1C224ZFN	C. CAPACITOR CH 16V 0.22U	1	
C6028, 29	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	2	
C6030-32	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	3	
C6033, 34	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	2	
C6035	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6036	ECUM1H561JCN	C. CAPACITOR CH 50V 560P	1	
C6701	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6702-07	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	6	
C6708	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6709	ECUM1C224ZFN	C. CAPACITOR CH 16V 0.22U	1	
C6710	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6711	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6712	ECUM1C224ZFN	C. CAPACITOR CH 16V 0.22U	1	
C6713	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C6714	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6715	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C6716	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6717	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6718	ECUM1C224ZFN	C. CAPACITOR CH 16V 0.22U	1	
C6719, 20	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C6721	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C6722	ECUM1H473ZFN	C. CAPACITOR CH 50V 0.047U	1	
C6723	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6725	ECUM1H150JCN	C. CAPACITOR CH 50V 15P	1	
C6726	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C6727	ECUM1H080DCN	C. CAPACITOR CH 50V 8P	1	
C6728-30	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C6731	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6732	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6733, 34	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C6735	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C6736	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6737	ECEA1HKA2R2	E. CAPACITOR 50V 2.2U	1	
C6738, 39	ECEA1CKA100	E. CAPACITOR 16V 10U	2	
C6740	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C6741-43	ECEA1HKA010	E. CAPACITOR 50V 1U	3	
C6745	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6746	ECUM1H271JCN	C. CAPACITOR CH 50V 270P	1	
C6748	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C6749	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6750	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7301, 02	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	2	
C7303	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C7304	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C7305	ECEA1CKA220	E. CAPACITOR 16V 22U	1	
C7306	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7309-12	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	4	
C7313	ECEA0JKA220	E. CAPACITOR 6.3V 22U	1	
C7314	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C7315	ECEA1EKA4R7	E. CAPACITOR 25V 4.7U	1	
C7317	ECUX1H090DCV	C. CAPACITOR CH 50V 90P	1	
C7319	ECRHA020D54R	V. CAPACITOR 50K	1	
C7320	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C7321	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C7322	ECEA1EKA4R7	E. CAPACITOR 25V 4.7U	1	
C7323, 24	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	2	
C7325, 26	ECEA1CKA100	E. CAPACITOR 16V 10U	2	
C7327	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C7328	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C7329, 30	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	2	
C7331	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C7332, 33	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	2	
C7334	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C7335	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C7338	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C7339	ECUM1H182KBM	C. CAPACITOR CH 50V 1800P	1	
C7340	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C7341	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C7342	ECUM1H561JCN	C. CAPACITOR CH 50V 560P	1	
C7343	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C7344	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C7345	ECUM1H182KBM	C. CAPACITOR CH 50V 1800P	1	
C7346	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C7347	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C7348	ECUM1H561JCN	C. CAPACITOR CH 50V 560P	1	
C7350	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C7351	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C7352	ECUM1H182KBM	C. CAPACITOR CH 50V 1800P	1	
C7353	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C7354	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C7355	ECUM1H561JCN	C. CAPACITOR CH 50V 560P	1	
C7357	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C7358	ECEA1HKA3R3	E. CAPACITOR 50V 3.3U	1	
C7359	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C7365	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C7369	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C7370	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C7371, 72	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	2	
C7374, 75	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C7601, 02	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C7603	ECEA1CKA101	E. CAPACITOR 16V 100U	1	
C7604	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C7605	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7606	ECEA1CKA101	E. CAPACITOR 16V 100U	1	
C7607	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C7608, 09	ECEA0JKA101	E. CAPACITOR 6.3V 100U	2	
C7610	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7611	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C7614	ECEA1HKA100	E. CAPACITOR 50V 10U	1	
D301	1SS283	DIODE	1	
D302	MA723VT	DIODE	1	
D305	1SS254	DIODE	1	
D306	MA723VT	DIODE	1	
D307	1SS254	DIODE	1	
D308	MA151K	DIODE	1	
D801, 02	1SS254	DIODE	2	
D804	1SS254	DIODE	1	
D806, 07	1SS254	DIODE	2	
D808	MA151WK	DIODE	1	
D812	MA151WK	DIODE	1	
D813	MA151K	DIODE	1	
D814, 15	1SS254	DIODE	2	
D1001	MA4110H	DIODE	1	
D1002, 03	1SS254	DIODE	2	
D1004	MA4051-M	DIODE	1	
D1005	1SS254	DIODE	1	
D1006	MA4051-L	DIODE	1	
D1007	1SS254	DIODE	1	
D1008	MA151WA	DIODE	1	
D1010, 11	MA723VT	DIODE	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D2002-04	1SS254	DIODE	3	
D2007	1SS254	DIODE	1	
D2501	MA157	DIODE	1	
D2503	11ES1	DIODE	1	
D2504, 05	1SS254	DIODE	2	
D3002	MA723VT	DIODE	1	
D3005, 06	1SS254	DIODE	2	
D3007	MA151K	DIODE	1	
D3011	MA151K	DIODE	1	
D3012-16	1SS254	DIODE	5	
D4001	MA151K	DIODE	1	
D4002	1SS254	DIODE	1	
D4005	MA4075	DIODE	1	
D4006	MA151K	DIODE	1	
D4501-04	MA141K	DIODE	4	
D4601, 02	MA141K	DIODE	2	
D6001	1SS254	DIODE	1	
D6003	1SS254	DIODE	1	
D6004	MA4075-L	DIODE	1	
D6005	LN59LT. VT	LED	1	
D6011, 12	1SS254	DIODE	2	
D6701, 02	1SS254	DIODE	2	
D7301	MA3082-L	DIODE	1	
D7302	MA151K	DIODE	1	
D7303	MA151WK	DIODE	1	
D7304	MA717	DIODE	1	
D7306	MA151WK	DIODE	1	
D7601	MA4300M	DIODE	1	
DL802	EFDWLA13A	DELAY	1	
DL6701	ELB4Y026	FILTER	1	
⚠DU7601	ENG47211GR	TUNER	1	
FL301	ELB4M022	FILTER	1	
FL302	VLF0639	FILTER	1	
FL303	ELB4R042	FILTER	1	
FL801	VLF1079	FILTER	1	
FL3001	VLF0765	FILTER	1	
FL3002	VLF1120	FILTER	1	
FL7301, 02	VLF0633	FILTER	2	
IC301	VCR0390	IC	1	
IC302	MN3859S	IC	1	
IC303	AN1358S	IC	1	
IC0701	LA7576	IC	1	
IC801	VCR0383	IC	1	
IC802	M52352FP	IC	1	
IC803	TA1225N	IC	1	
IC2501	BA6871BS	IC	1	
IC3001	AN3581S	IC	1	
IC3003	M52376FP	IC	1	
IC3004	NJM2233BMA	IC	1	
IC3005	HA17431PA	IC	1	
IC3006	M52055FP	IC	1	
IC3007	AN3916	IC	1	
IC3008	UPC78L05J	IC	1	
IC4001	NJM4565DD	IC	1	
IC4501	XLH7773AKS	IC	1	
IC4601	BA7755AF	IC	1	
IC6001	MN6755486H4H	IC	1	
IC6002, 03	ON1387	IC	2	
IC6004	BA6887-V3	IC	1	
IC6701	MC74HC161AF2	IC	1	
IC6702	ST24C08CB1	IC	1	
IC6703	MC74HC164FL2	IC	1	
IC6704	SAA5281ZPM3	IC	1	
IC6705	TDA8501	IC	1	
IC6706	P83C528MAAA	IC	1	
IC6707	M52055FP	IC	1	
IC6708	MC74HC573AF2	IC	1	
IC6709	NJM2234MA	IC	1	
IC6710	M27C512MFNA	IC	1	
IC6711	NJM2235MA	IC	1	
IC6712	UPC393G2	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC7301	MSP3410-15	IC	1	
IC7302	PST7043	IC	1	
IC7303	M5238FP	IC	1	
IC7304	HA17431PA	IC	1	
IC7305	MN155402VZDB	IC	1	
IC7306	PST7043	IC	1	
K2	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
K4	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
K6	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
K301	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
K0702	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
K0704, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
K2001, 02	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	2	
K3002, 03	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	2	
K3004	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
K3005-07	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	3	
K6004	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
K6701	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
K6703, 04	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	2	
K7305-07	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
K7314	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
K7317	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
L301	VLQ0599J390	COIL 39UH	1	
L302	VLQ0188J180	COIL 18UH	1	
L304	VLQ0599J270	COIL 27UH	1	
L306	VLQ0188J390	COIL 39UH	1	
L309, 10	VLQ0599J680	COIL 68UH	2	
L312	VLQ0599J330	COIL 33UH	1	
L314	VLQ0599J560	COIL 56UH	1	
L0701	VLQ0163JR22	COIL 0.22UH	1	
L0705	VLQ0163J2R7	COIL 2.7UH	1	
L0706	VLQEL05S8R2K	COIL 8.2UH	1	
L801, 02	ELESE681KA	COIL 680UH	2	
L803	ELESE331KA	COIL 330UH	1	
L804	VLQ0599J680	COIL 68UH	1	
L806	VLQ0599J680	COIL 68UH	1	
L809	VLQ0599J680	COIL 68UH	1	
L810	VLQ0188J150	COIL 15UH	1	
L811	VLQ0188J151	COIL 150UH	1	
L812	VLQ0188J270	COIL 27UH	1	
L814	VLQ0188J150	COIL 15UH	1	
L815-17	VLQ0599J680	COIL 68UH	3	
L2001	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
L2005	VLQ0569	COIL	1	
L2501	ELESE102KA	COIL 1000UH	1	
L3001	VLQ0599J680	COIL 68UH	1	
L3002	ELESE681KA	COIL 680UH	1	
L3003	VLQ0599J680	COIL 68UH	1	
L3004	VLQ0599J470	COIL 47UH	1	
L3005	VLQ0599J120	COIL 12UH	1	
L3006	VLQ0599J100	COIL 10UH	1	
L3007	VLQ0599J120	COIL 12UH	1	
L3009	VLQ0599J270	COIL 27UH	1	
L3010	VLQ0599J820	COIL 82UH	1	
L3012	VLQ0599J181	COIL 180UH	1	
L3013	VLQ0599J151	COIL 150UH	1	
L3017	VLQ0599J270	COIL 27UH	1	
L3018	VLQ0599J680	COIL 68UH	1	
L4001	VLQ0599J680	COIL 68UH	1	
L4002	ELESE471KA	COIL 470UH	1	
L4501, 02	ELESE101KA	COIL 100UH	2	
L4601	VLQEL07F153J	COIL	1	
L6001-03	VLQ0599J680	COIL 68UH	3	
L6004	VLP0074	COIL	1	
L6006-12	VLP0145	COIL	7	
L6701	VLP0083	COIL	1	
L6702	VLQ0599J680	COIL 68UH	1	
L6703	ELESE3R3KA	COIL 3.3UH	1	
L6704	VLQ0599J680	COIL 68UH	1	
L6705	VLQ0599J390	COIL 39UH	1	
L6706-08	VLP0083	COIL	3	
L6709	VLQ0599J680	COIL 68UH	1	
L7301	ELEXH100JBV	COIL 10UH	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L7302	VLP0150	COIL	1	
L7601, 02	VLQ0599J1R0	COIL 1UH	2	
L7603-05	VLQ0599J680	COIL 68UH	3	
L7606	VLQ0599J1R0	COIL 1UH	1	
L7607	VLQ0599J680	COIL 68UH	1	
L7608	VLQ0599J2R7	COIL 2.7UH	1	
LB3001	VLP0085	COIL	1	
P1001	VJS3631A011A	CONNECTOR (FEMALE) 11P	1	
P2002	VJP1232T	CONNECTOR (MALE) 5P	1	
P2003	VJP3483	CONNECTOR (MALE)	1	
P2004	VJS3537A015G	CONNECTOR (FEMALE) 15P	1	
P3001	VJS3537A020G	CONNECTOR (FEMALE) 20P	1	
P3003	VJS3537A032G	CONNECTOR (FEMALE) 32P	1	
P4001	VJP1932T	CONNECTOR (MALE)	1	
P4002	TJS118601T	CONNECTOR	1	
P4003	VJS3675A006G	CONNECTOR (FEMALE) 6P	1	
P6001	VJS3821	CONNECTOR (FEMALE) 4P	1	
P6002	VJP1230T	CONNECTOR (MALE) 3P	1	
P6003	VJS3640A002	CONNECTOR (FEMALE) 2P	1	
PK301	VJR0777B009W	CONNECTOR (MALE) 9P	1	
PK302	VJR0777B012W	CONNECTOR (MALE) 12P	1	
PK303	VJR0777B011W	CONNECTOR (MALE) 11P	1	
PK0701	VJR0816E010W	CONNECTOR (MALE) 10P	1	
PK4001-03	VJR0757B018T	CONNECTOR (MALE) 18P	3	
PK7301	VJR0777B009W	CONNECTOR (MALE) 9P	1	
PK7302	VJR0777B008W	CONNECTOR (MALE) 8P	1	
PP0701	VJP3589A004B	CONNECTOR (MALE) 4P	1	
PP3001	VJP3043A012W	CONNECTOR (MALE) 12P	1	
PP3002	VJP3043A010W	CONNECTOR (MALE) 10P	1	
PP3003, 04	VJP3043G011W	CONNECTOR (MALE) 11P	2	
Q301	MSC2295	TRANSISTOR	1	
Q302	MSB709	TRANSISTOR	1	
Q303, 04	MSC2295	TRANSISTOR	2	
Q305	MSD601	TRANSISTOR	1	
Q306	MSC2295	TRANSISTOR	1	
Q308	MSB709	TRANSISTOR	1	
Q309, 10	MSD601	TRANSISTOR	2	
Q311	MSB709	TRANSISTOR	1	
Q0701	MSD601-S	TRANSISTOR	1	
Q0702	MSB709-R	TRANSISTOR	1	
Q803	MSB709	TRANSISTOR	1	
Q804	MSC2295	TRANSISTOR	1	
Q805	MSD601	TRANSISTOR	1	
Q1001	2SD2544QPQA	TRANSISTOR	1	
Q1002, 03	2SD1996	TRANSISTOR	2	
Q1004	2SB1321A	TRANSISTOR	1	
Q1005	2SD1991A	TRANSISTOR	1	
Q1006	2SD602A	TRANSISTOR	1	
Q1007	2SD601A	TRANSISTOR	1	
Q1008, 09	2SD1996	TRANSISTOR	2	
Q1010, 11	2SD1328	TRANSISTOR	2	
Q3001	MSD602	TRANSISTOR	1	
Q3003	MSD601	TRANSISTOR	1	
Q3005, 06	MSB709	TRANSISTOR	2	
Q3007, 08	MSD601	TRANSISTOR	2	
Q3009, 10	MSC2295	TRANSISTOR	2	
Q3011	MSD602	TRANSISTOR	1	
Q3012	MSB710	TRANSISTOR	1	
Q3013	MSD602	TRANSISTOR	1	
Q3014	MSB710	TRANSISTOR	1	
Q3015, 16	MSD601	TRANSISTOR	2	
Q3017	MSB709	TRANSISTOR	1	
Q3018	MSD601	TRANSISTOR	1	
Q3019	2SD1996	TRANSISTOR	1	
Q3021	MSC2295	TRANSISTOR	1	
Q3022	MSB709	TRANSISTOR	1	
Q4002	2SD601A	TRANSISTOR	1	
Q4006	MSB710	TRANSISTOR	1	
Q4007, 08	MSD601	TRANSISTOR	2	
Q4009	2SD602A-R	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q4010	MSB710	TRANSISTOR	1	
Q4011	2SD601A	TRANSISTOR	1	
Q4012	2SD1328	TRANSISTOR	1	
Q4501	2SD655TZ	TRANSISTOR	1	
Q4551	2SB561	TRANSISTOR	1	
Q4552	2SD1819A	TRANSISTOR	1	
Q4601,02	2SD1819A	TRANSISTOR	2	
Q6001	MSB709	TRANSISTOR	1	
Q6002,03	PN205LT-NGVT	PHOTO TRANSISTOR	2	
Q6004	MSD601	TRANSISTOR	1	
Q7301,02	2SD1996	TRANSISTOR	2	
Q7304	2SC2404	TRANSISTOR	1	
Q7305	MSD601-S	TRANSISTOR	1	
Q7308	2SB709A	TRANSISTOR	1	
Q7310	2SB709A	TRANSISTOR	1	
Q7311-13	MSD1328-S	TRANSISTOR	3	
QR301	MUN2211	TRANSISTOR-RESISTOR	1	
QR302	MUN2212	TRANSISTOR-RESISTOR	1	
QR303	MUN2213	TRANSISTOR-RESISTOR	1	
QR304	MUN2211	TRANSISTOR-RESISTOR	1	
QR305	MUN2113	TRANSISTOR-RESISTOR	1	
QR307,08	MUN2213	TRANSISTOR-RESISTOR	2	
QR309	MUN2211	TRANSISTOR-RESISTOR	1	
QR310	MUN2213	TRANSISTOR-RESISTOR	1	
QR311	MUN2113	TRANSISTOR-RESISTOR	1	
QR312	MUN2111	TRANSISTOR-RESISTOR	1	
QR313,14	MUN2213	TRANSISTOR-RESISTOR	2	
QR315	MUN2113	TRANSISTOR-RESISTOR	1	
QR316	XN6213	TRANSISTOR-RESISTOR	1	
QR320	MUN2211	TRANSISTOR-RESISTOR	1	
QR802	MUN2213	TRANSISTOR-RESISTOR	1	
QR803	MUN2212	TRANSISTOR-RESISTOR	1	
QR805	MUN2213	TRANSISTOR-RESISTOR	1	
QR806	MUN2111	TRANSISTOR-RESISTOR	1	
QR807	MUN2213	TRANSISTOR-RESISTOR	1	
QR1001	MUN2111	TRANSISTOR-RESISTOR	1	
QR1002	MUN2213	TRANSISTOR-RESISTOR	1	
QR1003	MUN2211	TRANSISTOR-RESISTOR	1	
QR2001,02	MUN2213	TRANSISTOR-RESISTOR	2	
QR2003	MUN2112	TRANSISTOR-RESISTOR	1	
QR2004	UN2116	TRANSISTOR-RESISTOR	1	
QR3001	MUN2211	TRANSISTOR-RESISTOR	1	
QR3004	MUN2211	TRANSISTOR-RESISTOR	1	
QR3006-08	MUN2212	TRANSISTOR-RESISTOR	3	
QR3009	MUN2111	TRANSISTOR-RESISTOR	1	
QR3011	MUN2212	TRANSISTOR-RESISTOR	1	
QR3012	DTC363EK	TRANSISTOR-RESISTOR	1	
QR3013	MUN2211	TRANSISTOR-RESISTOR	1	
QR3015	MUN2212	TRANSISTOR-RESISTOR	1	
QR3016,17	MUN2211	TRANSISTOR-RESISTOR	2	
QR3020	MUN2111	TRANSISTOR-RESISTOR	1	
QR3021	MUN2211	TRANSISTOR-RESISTOR	1	
QR3023	MUN2213	TRANSISTOR-RESISTOR	1	
QR4001	MUN2211	TRANSISTOR-RESISTOR	1	
QR4002-04	MUN2213	TRANSISTOR-RESISTOR	3	
QR4005	MUN2212	TRANSISTOR-RESISTOR	1	
QR4006	MUN2211	TRANSISTOR-RESISTOR	1	
QR4007	MUN2212	TRANSISTOR-RESISTOR	1	
QR4008	MUN2211	TRANSISTOR-RESISTOR	1	
QR4508,09	UN5113	TRANSISTOR-RESISTOR	2	
QR4510	UN5212	TRANSISTOR-RESISTOR	1	
QR4602	UN5111	TRANSISTOR-RESISTOR	1	
QR4603	UN5213	TRANSISTOR-RESISTOR	1	
QR6002,03	MUN2211	TRANSISTOR-RESISTOR	2	
QR6006	MUN2212	TRANSISTOR-RESISTOR	1	
QR6007	XN1211	TRANSISTOR-RESISTOR	1	
QR6701	UN2216	TRANSISTOR-RESISTOR	1	
QR6702	UN2215	TRANSISTOR-RESISTOR	1	
QR7301	MUN2213	TRANSISTOR-RESISTOR	1	
QR7302	MUN2112	TRANSISTOR-RESISTOR	1	
R301	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R302	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R303	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R304	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R305	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R307	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R308	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R309	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R310	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R311	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R312	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R313	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R314	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R315	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R316	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R317	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R318	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R319	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R320	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R321	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R322	ERJ6GMYG242	M.RESISTOR CH 1/10W 2.4K	1	
R323	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R324	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R326	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R327	ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R328	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R329	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R330	ERJ6GMYG682	M.RESISTOR CH 1/10W 6.8K	1	
R331	ERJ6GMYJ362	M.RESISTOR CH 1/10W 3.6K	1	
R333	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R334	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R335	ERJ6GMYJ121	M.RESISTOR CH 1/10W 120	1	
R336	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R337	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R338,39	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R340	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R341	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R342	ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R343	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R344	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R345	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R346	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R347	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R348	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R349	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R351	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R352	ERJ6GMYG183	M.RESISTOR CH 1/10W 18K	1	
R353	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R354	ERJ6GMYG753	M.RESISTOR CH 1/10W 75K	1	
R355	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R358	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R359	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R366	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R0702	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R0704	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R0705	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R0706,07	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R0708	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0709	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R0710	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R0713	ERJ3GEYJ301	M.RESISTOR CH 1/16W 300	1	
R0714	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R0715	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0716	VRE0040E151	M.RESISTOR CH 1/10W 150	1	
R0717	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0718	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0719	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R0720	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0722	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R0728	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R0729	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0732	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R0783	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R802	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R803	ERJ6GMYJ242	M.RESISTOR CH 1/10W 2.4K	1	
R804,05	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R809	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R810,11	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R814	ERJ6GMYJ473	M. RESISTOR CH 1/10W 47K	1	
R817	ERJ6GMYJ152	M. RESISTOR CH 1/10W 1.5K	1	
R818	ERJ6GMYJ333	M. RESISTOR CH 1/10W 33K	1	
R827	ERJ6GMYJ154	M. RESISTOR CH 1/10W 150K	1	
R828	ERJ6GMYJ204	M. RESISTOR CH 1/10W 200K	1	
R829	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R830	ERJ6GMYJ154	M. RESISTOR CH 1/10W 150K	1	
R831	ERJ6GMYJ153	M. RESISTOR CH 1/10W 15K	1	
R832	ERJ6GMYJ122	M. RESISTOR CH 1/10W 1.2K	1	
R833	ERJ6GMYJ471	M. RESISTOR CH 1/10W 470	1	
R834	ERJ6GMYJ122	M. RESISTOR CH 1/10W 1.2K	1	
R835, 36	ERJ6GMYJ152	M. RESISTOR CH 1/10W 1.5K	2	
R837	ERJ6GMYJ122	M. RESISTOR CH 1/10W 1.2K	1	
R838, 39	ERJ6GMYJ681	M. RESISTOR CH 1/10W 680	2	
R840	ERJ6GMYJ272	M. RESISTOR CH 1/10W 2.7K	1	
R841	ERJ6GMYJ182	M. RESISTOR CH 1/10W 1.8K	1	
R842, 43	ERJ6GMYJ271	M. RESISTOR CH 1/10W 270	2	
R844	ERJ6GMYJ122	M. RESISTOR CH 1/10W 1.2K	1	
R845	ERJ6GMYJ182	M. RESISTOR CH 1/10W 1.8K	1	
R847	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	1	
R848	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R849	ERJ6GMYK395	M. RESISTOR CH 1/10W 3.9M	1	
R850	ERJ6GMYJ302	M. RESISTOR CH 1/10W 3K	1	
R851	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
R852	ERJ6GMYJ203	M. RESISTOR CH 1/10W 20K	1	
R856	ERJ6GMYJ821	M. RESISTOR CH 1/10W 820	1	
R859, 60	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	2	
R861	ERJ6GMYG123	M. RESISTOR CH 1/10W 12K	1	
R862	ERJ6GMYG122	M. RESISTOR CH 1/10W 1.2K	1	
R863	ERJ6GMYG102	M. RESISTOR CH 1/10W 1K	1	
R864	ERJ6GMYG101	M. RESISTOR CH 1/10W 100	1	
R865	ERJ6GMYJ470	M. RESISTOR CH 1/10W 47	1	
R866	ERJ6GMYJ822	M. RESISTOR CH 1/10W 8.2K	1	
R867	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R1001	ERDS1TJ272	C. RESISTOR 1/2W 2.7K	1	
R1002	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R1003	ERJ6GMYJ472	M. RESISTOR CH 1/10W 4.7K	1	
R1004, 05	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	2	
R1006	ERJ6GMYJ473	M. RESISTOR CH 1/10W 47K	1	
R1007	ERJ6GMYJ562	M. RESISTOR CH 1/10W 5.6K	1	
R1008	ERJ6GMYJ333	M. RESISTOR CH 1/10W 33K	1	
R1009	ERJ6GMYJ562	M. RESISTOR CH 1/10W 5.6K	1	
R1010	ERJ6GMYJ333	M. RESISTOR CH 1/10W 33K	1	
R1011	ERDS2TJ391	C. RESISTOR 1/4W 390	1	
R1012	ERJ6GMYJ393	M. RESISTOR CH 1/10W 39K	1	
R1013, 14	ERJ6GMYG272	M. RESISTOR CH 1/10W 2.7K	2	
R1015	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R1016	ERDS2TJ122	C. RESISTOR 1/4W 1.2K	1	
R1017	ERJ6GMYJ181	M. RESISTOR CH 1/10W 180	1	
R1018	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R2001	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R2002	ERJ6GMYJ562	M. RESISTOR CH 1/10W 5.6K	1	
R2003-05	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	3	
R2006	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
R2007	ERJ6GMYJ221	M. RESISTOR CH 1/10W 220	1	
R2008	ERJ6GMYJ272	M. RESISTOR CH 1/10W 2.7K	1	
R2009	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	1	
R2010-12	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	3	
R2013	ERJ6GMYJ392	M. RESISTOR CH 1/10W 3.9K	1	
R2014	ERJ6GMYJ222	M. RESISTOR CH 1/10W 2.2K	1	
R2015	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	1	
R2016	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R2017	ERJ6GMYJ471	M. RESISTOR CH 1/10W 470	1	
R2018	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R2019	ERJ6GMYJ222	M. RESISTOR CH 1/10W 2.2K	1	
R2020	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R2501, 02	ERDS2TJ560	C. RESISTOR 1/4W 56	2	
R2503	ERDS1TJ561	C. RESISTOR 1/2W 560	1	
R2504	ERJ6GMYJ222	M. RESISTOR CH 1/10W 2.2K	1	
R2505	ERJ6GMYG432	M. RESISTOR CH 1/10W 4.3K	1	
R2506	ERJ6GMYG473	M. RESISTOR CH 1/10W 47K	1	
R2507, 08	ERJ6GMYJ105	M. RESISTOR CH 1/10W 1M	2	
R2509, 10	ERJ6GMYJ392	M. RESISTOR CH 1/10W 3.9K	2	
R2511	ERDS2TJ560	C. RESISTOR 1/4W 56	1	
R2512	ERX12SJR47	M. RESISTOR 1/2W 0.47	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2514	ERJ6GMYG821	M. RESISTOR CH 1/10W 820	1	
R2515	ERJ6GMYG681	M. RESISTOR CH 1/10W 680	1	
R2517	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R2520	ERJ6GMYJ105	M. RESISTOR CH 1/10W 1M	1	
R2521	ERJ6GMYJ684	M. RESISTOR CH 1/10W 680K	1	
R2522	ERJ6GMYG133	M. RESISTOR CH 1/10W 13K	1	
R2523	ERJ6GMYG103	M. RESISTOR CH 1/10W 10K	1	
R3001	ERJ6GMYJ152	M. RESISTOR CH 1/10W 1.5K	1	
R3002	ERJ6GMYJ272	M. RESISTOR CH 1/10W 2.7K	1	
R3003	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3004	ERJ6GMYG102	M. RESISTOR CH 1/10W 1K	1	
R3005	ERJ6GMYG471	M. RESISTOR CH 1/10W 470	1	
R3006	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R3007	ERJ6GMYG911	M. RESISTOR CH 1/10W 910	1	
R3009	ERJ6GMYJ122	M. RESISTOR CH 1/10W 1.2K	1	
R3010	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	1	
R3011	ERJ6GMYJ122	M. RESISTOR CH 1/10W 1.2K	1	
R3012, 13	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	2	
R3014	ERJ6GMYJ821	M. RESISTOR CH 1/10W 820	1	
R3015	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3016	ERJ6GMYJ471	M. RESISTOR CH 1/10W 470	1	
R3017	ERJ6GMYJ821	M. RESISTOR CH 1/10W 820	1	
R3018	ERJ6GMYJ391	M. RESISTOR CH 1/10W 390	1	
R3019	ERJ6GMYJ681	M. RESISTOR CH 1/10W 680	1	
R3021	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	1	
R3022	ERJ6GMYJ472	M. RESISTOR CH 1/10W 4.7K	1	
R3023	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R3024	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3025	ERJ6GMYJ682	M. RESISTOR CH 1/10W 6.8K	1	
R3026, 27	ERJ6GMYJ681	M. RESISTOR CH 1/10W 680	2	
R3028	ERJ6GMYJ182	M. RESISTOR CH 1/10W 1.8K	1	
R3029	ERJ6GMYJ561	M. RESISTOR CH 1/10W 560	1	
R3030	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3031	ERJ6GMYJ222	M. RESISTOR CH 1/10W 2.2K	1	
R3032	ERJ6GMYJ681	M. RESISTOR CH 1/10W 680	1	
R3034	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3035	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R3036	ERJ6GMYG123	M. RESISTOR CH 1/10W 12K	1	
R3037	ERJ6GMYG512	M. RESISTOR CH 1/10W 5.1K	1	
R3038	ERJ6GMYG272	M. RESISTOR CH 1/10W 2.7K	1	
R3039	ERJ6GMYG302	M. RESISTOR CH 1/10W 3K	1	
R3040	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3041	ERJ6GMYG821	M. RESISTOR CH 1/10W 820	1	
R3042, 43	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	2	
R3044	ERJ6GMYJ681	M. RESISTOR CH 1/10W 680	1	
R3045	ERJ6GMYJ272	M. RESISTOR CH 1/10W 2.7K	1	
R3046	ERJ6GMYG622	M. RESISTOR CH 1/10W 6.2K	1	
R3047	ERJ6GMYG752	M. RESISTOR CH 1/10W 7.5K	1	
R3048	ERJ6GMYG562	M. RESISTOR CH 1/10W 5.6K	1	
R3049	ERJ6GMYG512	M. RESISTOR CH 1/10W 5.1K	1	
R3050	ERJ6GMYG332	M. RESISTOR CH 1/10W 3.3K	1	
R3051	ERJ6GMYG562	M. RESISTOR CH 1/10W 5.6K	1	
R3052	ERJ6GMYJ562	M. RESISTOR CH 1/10W 5.6K	1	
R3053	ERJ6GMYJ683	M. RESISTOR CH 1/10W 68K	1	
R3054	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R3055	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	1	
R3056	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3057	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R3058	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3060	ERJ6GMYJ473	M. RESISTOR CH 1/10W 47K	1	
R3061	ERJ6GMYJ123	M. RESISTOR CH 1/10W 12K	1	
R3062	ERJ6GMYJ183	M. RESISTOR CH 1/10W 18K	1	
R3063	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R3064, 65	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	2	
R3066	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	1	
R3068	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3069	ERJ6GMYJ152	M. RESISTOR CH 1/10W 1.5K	1	
R3070	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3072	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3073	ERJ6GMYJ112	M. RESISTOR CH 1/10W 1.1K	1	
R3076	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	1	
R3077	ERJ6GMYJ473	M. RESISTOR CH 1/10W 47K	1	
R3078	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R3079	ERJ6GMYJ183	M. RESISTOR CH 1/10W 18K	1	
R3080	ERJ6GMYJ203	M. RESISTOR CH 1/10W 20K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3082	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3085	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3086	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3087	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R3088	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3089	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3090	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3091	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3092	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3094	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4001,02	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	2	
R4003	ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4004,05	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R4006	ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4007	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4009	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R4010	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4011,12	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	2	
R4013	ERG2SJ681	M.RESISTOR 2W 680	1	
R4014	ERG1SJ122	M.RESISTOR 1W 1.2K	1	
R4015	ERJ6GMYG100	M.RESISTOR CH 1/10W 10	1	
R4016,17	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R4018	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4019,20	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R4021	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4022	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4023	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4024	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4025	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4026	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4027	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4038	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4039	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4040	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4041,42	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R4047	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4048	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4049	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R4050	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4051	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4052	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4053	ERG1SJ680	M.RESISTOR 1W 68	1	
R4054	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4501,02	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R4503	ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	1	
R4504,05	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4506,07	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4508	ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4509	ERJ3GEYJ622	M.RESISTOR CH 1/16W 6.2K	1	
R4511	ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4512	VRE0071E163	M.RESISTOR CH 1/10W 16K	1	
R4513	ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R4514,15	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4518,19	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R4522	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4527	VRE0071E333	M.RESISTOR CH 1/10W 33K	1	
R4528	VRE0071E153	M.RESISTOR CH 1/10W 15K	1	
R4529	ERJ3GEYG562	M.RESISTOR CH 1/16W 5.6K	1	
R4530	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4534	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4535	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4539	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4541	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4542	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4543	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4551,52	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4553,54	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4558	ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4561	ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4562	VRE0034E10C	M.RESISTOR CH 1/10W	1	
R4563	ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	1	
R4568,69	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4573	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4577	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4578	VRE0071E473	M.RESISTOR CH 1/10W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4581	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4583	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4584	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4585	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R4586	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4587,88	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4591	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4592	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4593	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4594	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4596	ERJ3GEYG473	M.RESISTOR CH 1/16W 47K	1	
R4597	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4598,99	ERJ3GEYG104	M.RESISTOR CH 1/16W 100K	2	
R4603	ERJ3GEYG183	M.RESISTOR CH 1/16W 18K	1	
R4606	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4610	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4611	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4612	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R4613	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R4615	ERJ3GEYJ133	M.RESISTOR CH 1/16W 13K	1	
R4616	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4638	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R4649	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4651	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4652	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4653	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4654	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4655	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4656	ERJ3GEYG243	M.RESISTOR CH 1/16W 24K	1	
R4657	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4666	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4671	ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R6001	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6003	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6006	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6007	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6008	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6009	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6012	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6013	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6014	ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R6015,16	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6018	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6019,20	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6021	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6022	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6024-26	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R6027,28	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	2	
R6029,30	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6033	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6034	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6035,36	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6037,38	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6040,41	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6043	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6044	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6046,47	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6048	ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R6049	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6050	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6051,52	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6053	ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R6054	ERJ6GMYG201	M.RESISTOR CH 1/10W 200	1	
R6055	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6056,57	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6058	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6059	ERX1SJ1R8	M.RESISTOR 1W 1.8	1	
R6060	ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R6061	ERJ6GMYG913	M.RESISTOR CH 1/10W 91K	1	
R6062	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R6063	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6064	ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R6065,66	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	2	
R6067	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6068	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6069.	ERJ6GMYJ104	M. RESISTOR CH 1/10W 100K	1	
R6070	ERJ6GMYJ822	M. RESISTOR CH 1/10W 8. 2K	1	
R6071	ERJ6GMYJ243	M. RESISTOR CH 1/10W 24K	1	
R6072, 73	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	2	
R6074	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
R6701	ERJ6GMYJ472	M. RESISTOR CH 1/10W 4. 7K	1	
R6702	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R6703-05	ERJ6GMYJ472	M. RESISTOR CH 1/10W 4. 7K	3	
R6706, 07	ERJ6GMYJ221	M. RESISTOR CH 1/10W 220	2	
R6708	ERJ6GMYJ471	M. RESISTOR CH 1/10W 470	1	
R6709	ERJ6GMYJ511	M. RESISTOR CH 1/10W 510	1	
R6710	ERJ6GMYJ224	M. RESISTOR CH 1/10W 220K	1	
R6711	ERJ6GMYJ472	M. RESISTOR CH 1/10W 4. 7K	1	
R6712	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R6713	ERJ6GMYJ273	M. RESISTOR CH 1/10W 27K	1	
R6715	ERJ6GMYJ472	M. RESISTOR CH 1/10W 4. 7K	1	
R6716	ERJ6GMYJ682	M. RESISTOR CH 1/10W 6. 8K	1	
R6718	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R6723	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3. 3K	1	
R6724-26	ERJ6GMYJ471	M. RESISTOR CH 1/10W 470	3	
R6727	ERJ6GMYJ222	M. RESISTOR CH 1/10W 2. 2K	1	
R6728	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R6729	ERJ6GMYJ472	M. RESISTOR CH 1/10W 4. 7K	1	
R6730	ERJ6GMYJ105	M. RESISTOR CH 1/10W 1M	1	
R6731	ERJ6GMYJ392	M. RESISTOR CH 1/10W 3. 9K	1	
R6732, 33	ERJ6GMYJ105	M. RESISTOR CH 1/10W 1M	2	
R6734	ERJ6GMYJ104	M. RESISTOR CH 1/10W 100K	1	
R6735, 36	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	2	
R6737	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R6738	ERJ6GMYJ101	M. RESISTOR CH 1/10W 100	1	
R6739	ERJ6GMYJ182	M. RESISTOR CH 1/10W 1. 8K	1	
R6740-47	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	8	
R6748	ERJ6GMYJ122	M. RESISTOR CH 1/10W 1. 2K	1	
R6749	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
R6750	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1	
R6751	ERJ6GMYJ101	M. RESISTOR CH 1/10W 100	1	
R7301	ERJ6GEYJ182	M. RESISTOR CH 1/10W 1. 8K	1	
R7302	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4. 7K	1	
R7303	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1. 5K	1	
R7308	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	
R7309, 10	ERJ6GEYJ561	M. RESISTOR CH 1/10W 560	2	
R7311	ERJ6GEYJ221	M. RESISTOR CH 1/10W 220	1	
R7312	ERJ6GEYJ152	M. RESISTOR CH 1/10W 1. 5K	1	
R7313, 14	ERJ3GEYG272	M. RESISTOR CH 1/16W 2. 7K	2	
R7315	ERJ3GEYJ114	M. RESISTOR CH 1/16W 110K	1	
R7316	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R7317	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R7320	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7321-23	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	3	
R7324	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R7325	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R7326	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7327-29	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	3	
R7330	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7332	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R7333	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7334-36	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	3	
R7337	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7339	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R7341-43	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	3	
R7344	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R7345, 46	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R7350	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R7351	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R7352-56	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R7357	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4. 7K	1	
R7362	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6. 8K	1	
R7366	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R7367	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R7368	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R7370	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R7376, 77	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R7378	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1. 5K	1	
R7379	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7381	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7383	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7602, 03	ERJ6GMYJ683	M. RESISTOR CH 1/10W 68K	2	
R7605-07	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	3	
R7609	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R7611	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R7612, 13	ERG2SJ331	M. RESISTOR 2W 330	2	
R7616, 17	ERJ6GMYJ151	M. RESISTOR CH 1/10W 150	2	
R7618	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R7619	ERJ6GMYJ392	M. RESISTOR CH 1/10W 3. 9K	1	
RX6701	EXBF9E103J	COMBI. R-R 10K	1	
S6001	VES0709	SWITCH	1	
S6002	VST0176	SWITCH	1	
T0703	EQV5EG071A	TRANSFORMER	1	
T0704	EQV5EG072A	TRANSFORMER	1	
T4001	EIQ7QF013Q	TRANSFORMER	1	
T4002	EIQ7QF012Q	TRANSFORMER	1	
VR301	EVMEGSA00B23	V. RESISTOR 2K	1	
VR302	EVMEGSA00B13	V. RESISTOR 1K	1	
VR303	EVMEASA00B13	V. RESISTOR 1K	1	
VR304	EVMEGSA00B13	V. RESISTOR 1K	1	
VR305, 06	EVNDCAA03B23	V. RESISTOR 2K	2	
VR0701	EVNCBAA00B24	V. RESISTOR 20K	1	
VR803	EVMEASA00B14	V. RESISTOR 10K	1	
VR804	EVMEGSA00B53	V. RESISTOR 5K	1	
VR805	EVNDCAA03B23	V. RESISTOR 2K	1	
VR2001	EVNCYAA03B54	V. RESISTOR 50K	1	
VR3001-04	EVMF6SA00B14	V. RESISTOR 10K	4	
VR3005	EVMF6SA00B24	V. RESISTOR 20K	1	
VR3014	EVNCYAA03B54	V. RESISTOR 50K	1	
VR4001	EVNCYAA03B15	V. RESISTOR 100K	1	
VR4501	EVMEGSA00B53	V. RESISTOR 5K	1	
VR4502	EVMEASA00BY4	V. RESISTOR 33K	1	
VR4507	EVMEASA00BY4	V. RESISTOR 33K	1	
VR4509	EVMEGSA00BY3	V. RESISTOR 3. 3K	1	
VR4512	EVNCBAA00B52	V. RESISTOR 500	1	
VR4550	EVMEGSA00B14	V. RESISTOR 10K	1	
VR4551, 52	EVMEASA00B55	V. RESISTOR 500K	2	
X0701	VLF1180	FILTER	1	
X0703	EFCSGM65MW3B	FILTER	1	
X0704	VLF1313	FILTER	1	
X801	VSX0406	CRYSTAL OSCILLATOR	1	
X6001	VSX0583	CRYSTAL OSCILLATOR	1	
X6701	VSX0583	CRYSTAL OSCILLATOR	1	
X6702	VSX0353	CRYSTAL OSCILLATOR	1	
X7302	VSX0683	CRYSTAL OSCILLATOR	1	
X7303	EFOGC4004A4	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VMD2328	REEL GUIDE	1	
	VMD2329	PHOTO TRANSISTOR HOLDER	2	FOR Q6002, 03
	VMD2330	LED HOLDER	1	FOR D6005
	VMP4471	TV DEMODULATOR ANGLE	1	FOR TV DEMODU. C. B. A.
	VMP4894	SUPPORT ANGLE	2	FOR Y/C C. B. A.
	VMT0784	SPACER	1	FOR NICAM DECODER C. B. A.
	VSC3553	SHIELD COVER (MAIN)	1	FOR NICAM DECODER C. B. A.
	VSC3555	SHIELD COVER (BOTTOM)	1	FOR NICAM DECODER C. B. A.
■	VEP03B73D	MAIN C. B. A.		(RTL)
				NV-HS900EC
C301	ECUM1H820JCN	C. CAPACITOR CH 50V 82P	1	
C302	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1	
C303	ECUM1H180JCN	C. CAPACITOR CH 50V 18P	1	
C304	ECEA0JKA220	E. CAPACITOR 6. 3V 22U	1	
C305	ECUM1H390JCN	C. CAPACITOR CH 50V 39P	1	
C306	ECUM1H150JCN	C. CAPACITOR CH 50V 15P	1	
C307	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C308	ECUM1H050CCN	C. CAPACITOR CH 50V 5P	1	
C310	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C311	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C312	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C313	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C318	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C319	ECUM1H080DCN	C. CAPACITOR CH 50V 8P	1	
C321, 22	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	2	
C324	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C325, 26	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C329	ECEA1HKAR33	E. CAPACITOR 50V 0.33U	1	
C331	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C332	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C335	ECEA0JKA220	E. CAPACITOR 6.3V 22U	1	
C336	ECEA1EKA4R7	E. CAPACITOR 25V 4.7U	1	
C337	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C340	ECEA0JKA220	E. CAPACITOR 6.3V 22U	1	
C341	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C344	ECEA1CKN100	E. CAPACITOR 16V 10U	1	
C345, 46	ECEA1CKA100	E. CAPACITOR 16V 10U	2	
C348	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C352	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	1	
C353, 54	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C0701, 02	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	2	
C0704	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C0706	ECEA1HKA0R1	E. CAPACITOR 50V 0.1U	1	
C0707, 08	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	2	
C0709	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C0710	ECUX1H470JPV	C. CAPACITOR CH 50V 47P	1	
C0711	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C0712	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C0714	ECQB1H473JF	P. CAPACITOR 50V 0.047U	1	
C0715	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C0716	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C0717	ECUX1H270JPV	C. CAPACITOR CH 50V 27P	1	
C0718	ECEA1HKSR47	E. CAPACITOR 50V 0.47U	1	
C0719	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C0720	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C0723	ECEA1HKA0R1	E. CAPACITOR 50V 0.1U	1	
C0726	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C0730	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C0732	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C801	ECUM1H681JCN	C. CAPACITOR CH 50V 680P	1	
C802	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C803	ECEA0JKA221	E. CAPACITOR 6.3V 220U	1	
C804	ECUM1H820JCN	C. CAPACITOR CH 50V 82P	1	
C805	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C808	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	1	
C809	ECEA1HKA4R7	E. CAPACITOR 50V 4.7U	1	
C810	ECEA0JKA221	E. CAPACITOR 6.3V 220U	1	
C812, 13	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C814	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C815	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C816	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C817	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C818	ECEA1HKA0R1	E. CAPACITOR 50V 0.1U	1	
C819	ECQB1H332JZ	P. CAPACITOR 50V 3300P	1	
C820	ECUM1H331JCN	C. CAPACITOR CH 50V 330P	1	
C821-23	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C824	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C825-27	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C828, 29	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	2	
C830	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C831	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C832	ECQV1H154JM	P. CAPACITOR 50V 0.15U	1	
C833	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C836	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1	
C839	ECEA1HKA4R7	E. CAPACITOR 50V 4.7U	1	
C840	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C841	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C842	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C843	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C845	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C846	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C847	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C848	ECEA1HKA0R1	E. CAPACITOR 50V 0.1U	1	
C849	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C850	ECEA1HKA0R1	E. CAPACITOR 50V 0.1U	1	
C851-53	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C854	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C855-57	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C858	ECUM1H681JCN	C. CAPACITOR CH 50V 680P	1	
C1001	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C1002	ECEA1CU470	E. CAPACITOR 16V 47U	1	
C1003	ECEA1CU101	E. CAPACITOR 16V 100U	1	
C1004	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C1005	ECEA1AKA220	E. CAPACITOR 10V 22U	1	
C1006	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C1007	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C1008	ECEA1AKA220	E. CAPACITOR 10V 22U	1	
C1009	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C1013	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C1018	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C1020	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C1021	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C1022	ECEA1AKA220	E. CAPACITOR 10V 22U	1	
C1023	VCEC073	E. CAPACITOR	1	
C2004	ECEA0JKA221	E. CAPACITOR 6.3V 220U	1	
C2005	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C2006	ECQV1H683JM	P. CAPACITOR 50V 0.068U	1	
C2007, 08	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	2	
C2009, 10	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	2	
C2011	ECEA1EKA4R7	E. CAPACITOR 25V 4.7U	1	
C2012, 13	ECEA1EKN3R3	E. CAPACITOR 25V 3.3U	2	
C2014	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C2015	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C2016	ECEA0JKA221	E. CAPACITOR 6.3V 220U	1	
C2017	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C2018	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1	
C2019	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C2020	ECUM1H392KBN	C. CAPACITOR CH 50V 3900P	1	
C2021	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C2022, 23	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	2	
C2027	ECEA1HKAR47	E. CAPACITOR 50V 0.47U	1	
C2028	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C2029	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C2030	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C2501, 02	ECEA1HKA2R2	E. CAPACITOR 50V 2.2U	2	
C2503	ECA1EM470	E. CAPACITOR 25V 47U	1	
C2504	ECEA1HKNR22	E. CAPACITOR 50V 0.22U	1	
C2505	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C2507, 08	ECUM1E333KBN	C. CAPACITOR CH 25V 0.033U	2	
C2509	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C2510	ECA0JM221	E. CAPACITOR 6.3V 220U	1	
C2513-15	ECUM1E333KBN	C. CAPACITOR CH 25V 0.033U	3	
C2516, 17	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	2	
C2518, 19	ECUM1C474ZFN	C. CAPACITOR CH 16V 0.47U	2	
C2521	ECA1CM221	E. CAPACITOR 16V 220U	1	
C2522	ECEA1HKA2R2	E. CAPACITOR 50V 2.2U	1	
C2523	ECUM1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C2524	ECQV1H683JM	P. CAPACITOR 50V 0.068U	1	
C3001, 02	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C3003	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C3004	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3005	ECA0JM331	E. CAPACITOR 6.3V 330U	1	
C3006-08	ECEA1HKA010	E. CAPACITOR 50V 1U	3	
C3009	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3010	ECA0JM331	E. CAPACITOR 6.3V 330U	1	
C3011	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C3012	ECA0JM331	E. CAPACITOR 6.3V 330U	1	
C3013	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C3016	ECUM1H180JCN	C. CAPACITOR CH 50V 18P	1	
C3017	ECUM1H150JCN	C. CAPACITOR CH 50V 15P	1	
C3018	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C3019	ECUM1H620JCN	C. CAPACITOR CH 50V 62P	1	
C3020-22	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C3023	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C3025	ECUM1H100DCN	C. CAPACITOR CH 50V 10P	1	
C3026	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1	
C3027	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3029	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C3030	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3032, 33	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C3034	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C3035	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3036	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C3037	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C3039, 40	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C3041, 42	ECUM1H100DCN	C. CAPACITOR CH 50V 10P	2	
C3043	ECUM1H181JCN	C. CAPACITOR CH 50V 180P	1	
C3044	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	1	
C3046, 47	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C3048	ECUM1H391JCN	C. CAPACITOR CH 50V 390P	1	
C3050	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3052-56	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	5	
C3057	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3058	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3059	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C3060, 61	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C3062	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	1	
C3063	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3064	ECUM1H332KBN	C. CAPACITOR CH 50V 3300P	1	
C3065	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C3066	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3067	ECEA1HKA3R3	E. CAPACITOR 50V 3.3U	1	
C3068	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C3069	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C3070	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3073, 74	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C3075, 76	ECEA1AKA330	E. CAPACITOR 10V 33U	2	
C3077	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C3079	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3080	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C3081-84	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	4	
C3085	ECUM1H180JCN	C. CAPACITOR CH 50V 18P	1	
C3086	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3087-89	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	3	
C3091	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C3092	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3093	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4001	ECEA1AKA220	E. CAPACITOR 10V 22U	1	
C4002	ECEA1HKA3R3	E. CAPACITOR 50V 3.3U	1	
C4003	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C4004, 05	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C4006, 07	ECEA1CKA100	E. CAPACITOR 16V 10U	2	
C4008	ECCD2H181J	C. CAPACITOR 500V 180P	1	
C4009	ECQP1222JZ	P. CAPACITOR 100V 2200P	1	
C4010	ECQB1H223JF	P. CAPACITOR 50V 0.022U	1	
C4011	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4012	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C4013	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C4022	ECQB1H102JZ	P. CAPACITOR 50V 1000P	1	
C4023	ECQB1H103JZ	P. CAPACITOR 50V 0.01U	1	
C4024	ECEA16M33	E. CAPACITOR 16V 33U	1	
C4025	ECQV1H104JM	P. CAPACITOR 50V 0.1U	1	
C4027	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4028	ECQB1H472JF	P. CAPACITOR 50V 4700P	1	
C4029	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C4030	ECEA1AKA101	E. CAPACITOR 10V 100U	1	
C4031	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C4032	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C4501	ECQB1H152JZ	P. CAPACITOR 50V 1500P	1	
C4502	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4503	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C4504, 05	ECEA1CU470	E. CAPACITOR 16V 47U	2	
C4506	ECEA1CU100	E. CAPACITOR 16V 10U	1	
C4507	ECQB1H223JF	P. CAPACITOR 50V 0.022U	1	
C4508	ECEA1EBZ4R7	E. CAPACITOR 25V 4.7U	1	
C4509	ECEA1AU470	E. CAPACITOR 10V 47U	1	
C4510	ECQB1H103JF	P. CAPACITOR 50V 0.01U	1	
C4511	ECQB1H332JF	P. CAPACITOR 50V 3300P	1	
C4512	ECUX1H561JV	C. CAPACITOR CH 50V 560P	1	
C4513	ECUX1H681JV	C. CAPACITOR CH 50V 680P	1	
C4514	ECUX1H561JV	C. CAPACITOR CH 50V 560P	1	
C4515	ECEA1EU4R7	E. CAPACITOR 25V 4.7U	1	
C4517	ECEA1AU101	E. CAPACITOR 10V 100U	1	
C4518	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4521	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C4522	ECEA1HU3R3	E. CAPACITOR 50V 3.3U	1	
C4528	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4530	ECEA0JU470	E. CAPACITOR 6.3V 47U	1	
C4533	ECEA1CU330	E. CAPACITOR 16V 33U	1	
C4537	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C4538	ECEA1HUR47	E. CAPACITOR 50V 0.47U	1	
C4539	ECUX1C224ZFV	C. CAPACITOR CH 16V 0.22U	1	
C4541	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4545	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4551	ECQB1H223JF	P. CAPACITOR 50V 0.022U	1	
C4552	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4556	ECEA1CU100	E. CAPACITOR 16V 10U	1	
C4558	ECEA1EBZ4R7	E. CAPACITOR 25V 4.7U	1	
C4559	ECEA1AU470	E. CAPACITOR 10V 47U	1	
C4560	ECQB1H103JF	P. CAPACITOR 50V 0.01U	1	
C4561	ECQB1H332JF	P. CAPACITOR 50V 3300P	1	
C4562	ECUX1H561JV	C. CAPACITOR CH 50V 560P	1	
C4563	ECUX1H681JV	C. CAPACITOR CH 50V 680P	1	
C4564	ECUX1H561JV	C. CAPACITOR CH 50V 560P	1	
C4565	ECEA1EU4R7	E. CAPACITOR 25V 4.7U	1	
C4567	ECEA1AU101	E. CAPACITOR 10V 100U	1	
C4568	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4572	ECEA1HU3R3	E. CAPACITOR 50V 3.3U	1	
C4576	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C4583	ECEA1CU330	E. CAPACITOR 16V 33U	1	
C4585, 86	ECEA1AU101	E. CAPACITOR 10V 100U	2	
C4591	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C4592	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C4593	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C4594, 95	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C4596	ECEA1CU100	E. CAPACITOR 16V 10U	1	
C4597	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C4598	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C4604	ECUM1H182JN	C. CAPACITOR CH 50V 1800P	1	
C4606	ECEA0JU470	E. CAPACITOR 6.3V 47U	1	
C4611	ECQB1H182JZ	P. CAPACITOR 50V 1800P	1	
C4613	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C4616	ECUX1H102ZFV	C. CAPACITOR CH 50V 1000P	1	
C4617	ECEA1CW22	E. CAPACITOR 16V 22U	1	
C4618	ECQB1H822JZ	P. CAPACITOR 50V 8200P	1	
C4621	ECEA0JU101	E. CAPACITOR 6.3V 100U	1	
C4629	ECQB1H562JF	P. CAPACITOR 50V 5600P	1	
C4636	ECUX1H471JV	C. CAPACITOR CH 50V 470P	1	
C4638	ECQB1H822JZ	P. CAPACITOR 50V 8200P	1	
C4652, 53	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	2	
C6001	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6002	ECEA1HKA2R2	E. CAPACITOR 50V 2.2U	1	
C6004	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C6005	ECUM1H150JCN	C. CAPACITOR CH 50V 15P	1	
C6006	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6007	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6008	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C6009	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C6010	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6011	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C6012, 13	ECEA0JKA470	E. CAPACITOR 6.3V 47U	2	
C6014, 15	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C6016	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C6018	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C6019-22	ECUM1H271JCN	C. CAPACITOR CH 50V 270P	4	
C6023, 24	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C6026	ECA1EM470	E. CAPACITOR 25V 47U	1	
C6027	ECUM1C224ZFN	C. CAPACITOR CH 16V 0.22U	1	
C6028, 29	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	2	
C6030-32	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	3	
C6033, 34	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	2	
C6035	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6036	ECUM1H561JCN	C. CAPACITOR CH 50V 560P	1	
C6701	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6702-07	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	6	
C6708	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6709	ECUM1C224ZFN	C. CAPACITOR CH 16V 0.22U	1	
C6710	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6711	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C6712	ECUM1C224ZFN	C. CAPACITOR CH 16V 0.22U	1	
C6713	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C6714	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6715	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C6716	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6717	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6718	ECUM1C224ZFN	C. CAPACITOR CH 16V 0.22U	1	
C6719, 20	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C6721	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C6722	ECUM1H473ZFN	C. CAPACITOR CH 50V 0.047U	1	
C6723	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6725	ECUM1H150JCN	C. CAPACITOR CH 50V 15P	1	
C6726	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C6727	ECUM1H080DCN	C. CAPACITOR CH 50V 8P	1	
C6728-30	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C6731	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6732	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6733, 34	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C6735	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C6736	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6737	ECEA1HKA2R2	E. CAPACITOR 50V 2.2U	1	
C6738, 39	ECEA1CKA100	E. CAPACITOR 16V 10U	2	
C6740	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C6741-43	ECEA1HKA010	E. CAPACITOR 50V 1U	3	
C6745	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6746	ECUM1H271JCN	C. CAPACITOR CH 50V 270P	1	
C6748	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C6749	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C6750	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7301, 02	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	2	
C7303	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C7304	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C7305	ECEA1CKA220	E. CAPACITOR 16V 22U	1	
C7306	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C7309-12	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	4	
C7313	ECEA0JKA220	E. CAPACITOR 6.3V 22U	1	
C7314	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C7315	ECEA1EKA4R7	E. CAPACITOR 25V 4.7U	1	
C7317	ECUX1H090DCV	C. CAPACITOR CH 50V 90P	1	
C7319	ECRHA020D54R	V. CAPACITOR 50K	1	
C7320	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C7321	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C7322	ECEA1EKA4R7	E. CAPACITOR 25V 4.7U	1	
C7323, 24	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	2	
C7325, 26	ECEA1CKA100	E. CAPACITOR 16V 10U	2	
C7327	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C7328	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C7329, 30	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	2	
C7331	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C7332, 33	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	2	
C7334	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C7335	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C7338	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C7339	ECUM1H182KBM	C. CAPACITOR CH 50V 1800P	1	
C7340	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C7341	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C7342	ECUM1H561JCN	C. CAPACITOR CH 50V 560P	1	
C7343	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C7344	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C7345	ECUM1H182KBM	C. CAPACITOR CH 50V 1800P	1	
C7346	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C7347	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C7348	ECUM1H561JCN	C. CAPACITOR CH 50V 560P	1	
C7350	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
C7351	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C7352	ECUM1H182KBM	C. CAPACITOR CH 50V 1800P	1	
C7353	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C7354	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C7355	ECUM1H561JCN	C. CAPACITOR CH 50V 560P	1	
C7357	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C7358	ECEA1HKA3R3	E. CAPACITOR 50V 3.3U	1	
C7359	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C7365, 66	ECEA1HKA010	E. CAPACITOR 50V 1U	2	
C7369	ECEA0JKA470	E. CAPACITOR 6.3V 47U	1	
C7370	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7371, 72	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	2	
C7374, 75	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C7601, 02	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C7603	ECEA1CKA101	E. CAPACITOR 16V 100U	1	
C7604	ECEA0JKA101	E. CAPACITOR 6.3V 100U	1	
C7605	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7606	ECEA1CKA101	E. CAPACITOR 16V 100U	1	
C7607	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C7608, 09	ECEA0JKA101	E. CAPACITOR 6.3V 100U	2	
C7610	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7611	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C7614	ECEA1HKA100	E. CAPACITOR 50V 10U	1	
D301	1SS283	DIODE	1	
D302	MA723VT	DIODE	1	
D305	1SS254	DIODE	1	
D306	MA723VT	DIODE	1	
D307	1SS254	DIODE	1	
D308	MA151K	DIODE	1	
D801, 02	1SS254	DIODE	2	
D804	1SS254	DIODE	1	
D806, 07	1SS254	DIODE	2	
D808	MA151WK	DIODE	1	
D812	MA151WK	DIODE	1	
D813	MA151K	DIODE	1	
D814, 15	1SS254	DIODE	2	
D1001	MA4110H	DIODE	1	
D1002, 03	1SS254	DIODE	2	
D1004	MA4051-M	DIODE	1	
D1005	1SS254	DIODE	1	
D1006	MA4051-L	DIODE	1	
D1007	1SS254	DIODE	1	
D1008	MA151WA	DIODE	1	
D1010, 11	MA723VT	DIODE	2	
D2002-04	1SS254	DIODE	3	
D2007	1SS254	DIODE	1	
D2501	MA157	DIODE	1	
D2503	11ES1	DIODE	1	
D2504, 05	1SS254	DIODE	2	
D3002	MA723VT	DIODE	1	
D3005, 06	1SS254	DIODE	2	
D3007	MA151K	DIODE	1	
D3011	MA151K	DIODE	1	
D3012-16	1SS254	DIODE	5	
D4001	MA151K	DIODE	1	
D4002	1SS254	DIODE	1	
D4005	MA4075	DIODE	1	
D4006	MA151K	DIODE	1	
D4501-04	MA141K	DIODE	4	
D4601, 02	MA141K	DIODE	2	
D6001	1SS254	DIODE	1	
D6003	1SS254	DIODE	1	
D6004	MA4075-L	DIODE	1	
D6005	LN59LT. VT	LED	1	
D6011, 12	1SS254	DIODE	2	
D6701, 02	1SS254	DIODE	2	
D7301	MA3082-L	DIODE	1	
D7302	MA151K	DIODE	1	
D7303	MA151WK	DIODE	1	
D7304	MA717	DIODE	1	
D7306	MA151WK	DIODE	1	
D7308	MA723VT	DIODE	1	
D7601	MA4300M	DIODE	1	
DL802	EFDWLA13A	DELAY	1	
DL6701	ELB4Y026	FILTER	1	
⚠DU7601	ENG47232G	TUNER	1	
FL301	ELB4M022	FILTER	1	
FL302	VLF0639	FILTER	1	
FL303	ELB4R042	FILTER	1	
FL801	VLF1079	FILTER	1	
FL3001	VLF0765	FILTER	1	
FL3002	VLF1120	FILTER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL7301, 02	VLF0633	FILTER	2	
FL7601	ELB4H020	FILTER	1	
IC301	VCR0390	IC	1	
IC302	MN3859S	IC	1	
IC303	AN1358S	IC	1	
IC0701	LA7576	IC	1	
IC801	VCR0383	IC	1	
IC802	M52352FP	IC	1	
IC803	TA1225N	IC	1	
IC2501	BA6871BS	IC	1	
IC3001	AN3581S	IC	1	
IC3003	M52376FP	IC	1	
IC3004	NJM2233BMA	IC	1	
IC3005	HA17431PA	IC	1	
IC3006	M52055FP	IC	1	
IC3007	AN3916	IC	1	
IC3008	UPC78L05J	IC	1	
IC4001	NJM4565DD	IC	1	
IC4501	XLH7773AKS	IC	1	
IC4601	BA7755AF	IC	1	
IC6001	MN6755486H4H	IC	1	
IC6002, 03	ON1387	IC	2	
IC6004	BA6887-V3	IC	1	
IC6701	MC74HC161AF2	IC	1	
IC6702	ST24C08CB1	IC	1	
IC6703	MC74HC164FL2	IC	1	
IC6704	SAA5281ZPM3	IC	1	
IC6705	TDA8501	IC	1	
IC6706	P83C528MAAA	IC	1	
IC6707	M52055FP	IC	1	
IC6708	MC74HC573AF2	IC	1	
IC6709	NJM2234MA	IC	1	
IC6710	M27C512MFNA	IC	1	
IC6711	NJM2235MA	IC	1	
IC6712	UPC393G2	IC	1	
IC7301	MSP3410-15	IC	1	
IC7302	PST7043	IC	1	
IC7303	M5238FP	IC	1	
IC7304	HA17431PA	IC	1	
IC7305	MN155402VZDB	IC	1	
IC7306	PST7043	IC	1	
K2	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K4	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K6	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K301	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K0702	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0704, 05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
K2001, 02	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K3002, 03	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K3004	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
K3005-07	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	3	
K6004	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K6701	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K6703, 04	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K7304-07	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
K7314	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K7317	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
L302	VLQ0188J180	COIL 18UH	1	
L304	VLQ0599J270	COIL 27UH	1	
L306	VLQ0188J390	COIL 39UH	1	
L309, 10	VLQ0599J680	COIL 68UH	2	
L312	VLQ0599J330	COIL 33UH	1	
L313, 14	VLQ0599J560	COIL 56UH	2	
L0701, 02	ELJNAR10MF	COIL	2	
L0705	VLQ0163J5R6	COIL 5.6UH	1	
L0706	VLQEL05S120K	COIL 12UH	1	
L801, 02	ELESE681KA	COIL 680UH	2	
L803	ELESE331KA	COIL 330UH	1	
L804	VLQ0599J680	COIL 68UH	1	
L806	VLQ0599J680	COIL 68UH	1	
L809	VLQ0599J680	COIL 68UH	1	
L810	VLQ0188J150	COIL 15UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L811	VLQ0188J151	COIL 150UH	1	
L812	VLQ0188J270	COIL 27UH	1	
L814	VLQ0188J150	COIL 15UH	1	
L815-17	VLQ0599J680	COIL 68UH	3	
L2001	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L2005	VLQ0569	COIL	1	
L2501	ELESE102KA	COIL 1000UH	1	
L3001	VLQ0599J680	COIL 68UH	1	
L3002	ELESE681KA	COIL 680UH	1	
L3003	VLQ0599J680	COIL 68UH	1	
L3004	VLQ0599J470	COIL 47UH	1	
L3005	VLQ0599J120	COIL 12UH	1	
L3006	VLQ0599J100	COIL 10UH	1	
L3007	VLQ0599J120	COIL 12UH	1	
L3009	VLQ0599J270	COIL 27UH	1	
L3010	VLQ0599J820	COIL 82UH	1	
L3012	VLQ0599J181	COIL 180UH	1	
L3013	VLQ0599J151	COIL 150UH	1	
L3017	VLQ0599J270	COIL 27UH	1	
L3018	VLQ0599J680	COIL 68UH	1	
L4001	VLQ0599J680	COIL 68UH	1	
L4002	ELESE471KA	COIL 470UH	1	
L4501, 02	ELESE101KA	COIL 100UH	2	
L4601	VLQEL07F153J	COIL	1	
L6001-03	VLQ0599J680	COIL 68UH	3	
L6004	VLP0074	COIL	1	
L6006-12	VLP0145	COIL	7	
L6701	VLP0083	COIL	1	
L6702	VLQ0599J680	COIL 68UH	1	
L6703	ELESE3R3KA	COIL 3.3UH	1	
L6704	VLQ0599J680	COIL 68UH	1	
L6705	VLQ0599J390	COIL 39UH	1	
L6706-08	VLP0083	COIL	3	
L6709	VLQ0599J680	COIL 68UH	1	
L7301	ELEXH100JBV	COIL 10UH	1	
L7302	VLP0150	COIL	1	
L7601, 02	VLQ0599J1R0	COIL 1UH	2	
L7603-05	VLQ0599J680	COIL 68UH	3	
L7607	VLQ0599J680	COIL 68UH	1	
L7608	VLQ0599J2R7	COIL 2.7UH	1	
LB3001	VLP0085	COIL	1	
P1001	VJS3631A011A	CONNECTOR (FEMALE) 11P	1	
P2002	VJP1232T	CONNECTOR (MALE) 5P	1	
P2003	VJP3483	CONNECTOR (MALE)	1	
P2004	VJS3537A015G	CONNECTOR (FEMALE) 15P	1	
P3001	VJS3537A020G	CONNECTOR (FEMALE) 20P	1	
P3003	VJS3537A032G	CONNECTOR (FEMALE) 32P	1	
P4001	VJP1932T	CONNECTOR (MALE)	1	
P4002	TJS118601T	CONNECTOR	1	
P4003	VJS3675A006G	CONNECTOR (FEMALE) 6P	1	
P6001	VJS3821	CONNECTOR (FEMALE) 4P	1	
P6002	VJP1230T	CONNECTOR (MALE) 3P	1	
P6003	VJS3640A002	CONNECTOR (FEMALE) 2P	1	
PK301	VJR0777B009W	CONNECTOR (MALE) 9P	1	
PK302	VJR0777B012W	CONNECTOR (MALE) 12P	1	
PK303	VJR0777B011W	CONNECTOR (MALE) 11P	1	
PK0701	VJR0816E010W	CONNECTOR (MALE) 10P	1	
PK4001-03	VJR0757B018T	CONNECTOR (MALE) 18P	3	
PK7301	VJR0777B009W	CONNECTOR (MALE) 9P	1	
PK7302	VJR0777B008W	CONNECTOR (MALE) 8P	1	
PP0701	VJP3589A004B	CONNECTOR (MALE) 4P	1	
PP3001	VJP3043A012W	CONNECTOR (MALE) 12P	1	
PP3002	VJP3043A010W	CONNECTOR (MALE) 10P	1	
PP3003, 04	VJP3043G011W	CONNECTOR (MALE) 11P	2	
Q301	MSC2295	TRANSISTOR	1	
Q302	MSB709	TRANSISTOR	1	
Q303, 04	MSC2295	TRANSISTOR	2	
Q305	MSD601	TRANSISTOR	1	
Q306	MSC2295	TRANSISTOR	1	
Q308	MSB709	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q309, 10	MSD601	TRANSISTOR	2	
Q311	MSB709	TRANSISTOR	1	
Q0701	MSD601-S	TRANSISTOR	1	
Q0702	MSB709-R	TRANSISTOR	1	
Q803	MSB709	TRANSISTOR	1	
Q804	MSC2295	TRANSISTOR	1	
Q805	MSD601	TRANSISTOR	1	
Q1001	2SD2544OPQA	TRANSISTOR	1	
Q1002, 03	2SD1996	TRANSISTOR	2	
Q1004	2SB1321A	TRANSISTOR	1	
Q1005	2SD1991A	TRANSISTOR	1	
Q1006	2SD602A	TRANSISTOR	1	
Q1007	2SD601A	TRANSISTOR	1	
Q1008, 09	2SD1996	TRANSISTOR	2	
Q1010, 11	2SD1328	TRANSISTOR	2	
Q3001	MSD602	TRANSISTOR	1	
Q3003	MSD601	TRANSISTOR	1	
Q3005, 06	MSB709	TRANSISTOR	2	
Q3007, 08	MSD601	TRANSISTOR	2	
Q3009, 10	MSC2295	TRANSISTOR	2	
Q3011	MSD602	TRANSISTOR	1	
Q3012	MSB710	TRANSISTOR	1	
Q3013	MSD602	TRANSISTOR	1	
Q3014	MSB710	TRANSISTOR	1	
Q3015, 16	MSD601	TRANSISTOR	2	
Q3017	MSB709	TRANSISTOR	1	
Q3018	MSD601	TRANSISTOR	1	
Q3019	2SD1996	TRANSISTOR	1	
Q3021	MSC2295	TRANSISTOR	1	
Q3022	MSB709	TRANSISTOR	1	
Q4002	2SD601A	TRANSISTOR	1	
Q4006	MSB710	TRANSISTOR	1	
Q4007, 08	MSD601	TRANSISTOR	2	
Q4009	2SD602A-R	TRANSISTOR	1	
Q4010	MSB710	TRANSISTOR	1	
Q4011	2SD601A	TRANSISTOR	1	
Q4012	2SD1328	TRANSISTOR	1	
Q4501	2SD655TZ	TRANSISTOR	1	
Q4551	2SB561	TRANSISTOR	1	
Q4552	2SD1819A	TRANSISTOR	1	
Q4601, 02	2SD1819A	TRANSISTOR	2	
Q6001	MSB709	TRANSISTOR	1	
Q6002, 03	PN205LT-NGVT	PHOTO TRANSISTOR	2	
Q6004	MSD601	TRANSISTOR	1	
Q7301, 02	2SD1996	TRANSISTOR	2	
Q7304	2SC2404	TRANSISTOR	1	
Q7305	MSD601-S	TRANSISTOR	1	
Q7308-10	2SB709A	TRANSISTOR	3	
Q7311-13	MSD1328-S	TRANSISTOR	3	
QR301	MUN2211	TRANSISTOR-RESISTOR	1	
QR302	MUN2212	TRANSISTOR-RESISTOR	1	
QR303	MUN2213	TRANSISTOR-RESISTOR	1	
QR304	MUN2211	TRANSISTOR-RESISTOR	1	
QR305	MUN2113	TRANSISTOR-RESISTOR	1	
QR307, 08	MUN2213	TRANSISTOR-RESISTOR	2	
QR309	MUN2211	TRANSISTOR-RESISTOR	1	
QR310	MUN2213	TRANSISTOR-RESISTOR	1	
QR311	MUN2113	TRANSISTOR-RESISTOR	1	
QR312	MUN2111	TRANSISTOR-RESISTOR	1	
QR313, 14	MUN2213	TRANSISTOR-RESISTOR	2	
QR315	MUN2113	TRANSISTOR-RESISTOR	1	
QR316	XN6213	TRANSISTOR-RESISTOR	1	
QR320	MUN2211	TRANSISTOR-RESISTOR	1	
QR321	MUN2213	TRANSISTOR-RESISTOR	1	
QR801, 02	MUN2213	TRANSISTOR-RESISTOR	2	
QR803	MUN2212	TRANSISTOR-RESISTOR	1	
QR805	MUN2213	TRANSISTOR-RESISTOR	1	
QR806	MUN2111	TRANSISTOR-RESISTOR	1	
QR807	MUN2213	TRANSISTOR-RESISTOR	1	
QR1001	MUN2111	TRANSISTOR-RESISTOR	1	
QR1002	MUN2213	TRANSISTOR-RESISTOR	1	
QR1003	MUN2211	TRANSISTOR-RESISTOR	1	
QR2001, 02	MUN2213	TRANSISTOR-RESISTOR	2	
QR2003	MUN2112	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR2004	UN2116	TRANSISTOR-RESISTOR	1	
QR3001	MUN2211	TRANSISTOR-RESISTOR	1	
QR3004	MUN2211	TRANSISTOR-RESISTOR	1	
QR3006-08	MUN2212	TRANSISTOR-RESISTOR	3	
QR3009	MUN2111	TRANSISTOR-RESISTOR	1	
QR3010	MUN2213	TRANSISTOR-RESISTOR	1	
QR3011	MUN2212	TRANSISTOR-RESISTOR	1	
QR3012	DTC363EK	TRANSISTOR-RESISTOR	1	
QR3013	MUN2211	TRANSISTOR-RESISTOR	1	
QR3015	MUN2212	TRANSISTOR-RESISTOR	1	
QR3016, 17	MUN2211	TRANSISTOR-RESISTOR	2	
QR3020	MUN2111	TRANSISTOR-RESISTOR	1	
QR3021	MUN2211	TRANSISTOR-RESISTOR	1	
QR3023	MUN2213	TRANSISTOR-RESISTOR	1	
QR4001	MUN2211	TRANSISTOR-RESISTOR	1	
QR4002-04	MUN2213	TRANSISTOR-RESISTOR	3	
QR4005	MUN2212	TRANSISTOR-RESISTOR	1	
QR4006	MUN2211	TRANSISTOR-RESISTOR	1	
QR4007	MUN2212	TRANSISTOR-RESISTOR	1	
QR4008	MUN2211	TRANSISTOR-RESISTOR	1	
QR4508, 09	UN5113	TRANSISTOR-RESISTOR	2	
QR4510	UN5212	TRANSISTOR-RESISTOR	1	
QR4602	UN5111	TRANSISTOR-RESISTOR	1	
QR4603	UN5213	TRANSISTOR-RESISTOR	1	
QR6002, 03	MUN2211	TRANSISTOR-RESISTOR	2	
QR6006	MUN2212	TRANSISTOR-RESISTOR	1	
QR6007	XN1211	TRANSISTOR-RESISTOR	1	
QR6701	UN2216	TRANSISTOR-RESISTOR	1	
QR6702	UN2215	TRANSISTOR-RESISTOR	1	
QR7301	MUN2213	TRANSISTOR-RESISTOR	1	
QR7302	MUN2112	TRANSISTOR-RESISTOR	1	
R301	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R302	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R303	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R304	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R305	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R307	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R308	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R309	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R310	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R311	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R312	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R313	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R314	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R315	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R316	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R317	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R318	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R319	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R320	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R321	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R322	ERJ6GMYG242	M.RESISTOR CH 1/10W 2.4K	1	
R323	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R324	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R326	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R327	ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R328	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R329	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R330	ERJ6GMYG682	M.RESISTOR CH 1/10W 6.8K	1	
R331	ERJ6GMYJ362	M.RESISTOR CH 1/10W 3.6K	1	
R333	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R334	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R335	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R336	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R337	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R338, 39	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R340	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R341	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R342	ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R343	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R344	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R345	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R346	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R347	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R348	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R349	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R351	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R352	ERJ6GMYG183	M.RESISTOR CH 1/10W 18K	1	
R353	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R354	ERJ6GMYG753	M.RESISTOR CH 1/10W 75K	1	
R355	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R358	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R359	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R365	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R366	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R0702	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R0704	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R0705	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R0706,07	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R0708	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0709	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R0710	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R0713	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R0714	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R0715	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0716	VRE0040E151	M.RESISTOR CH 1/10W 150	1	
R0717	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0718	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0719	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R0720	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0722	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R0728	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R0729	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0732	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R0783	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R801	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R802	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R803	ERJ6GMYJ242	M.RESISTOR CH 1/10W 2.4K	1	
R804,05	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R809	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R810,11	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R814	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R817	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R818	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R827	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R828	ERJ6GMYJ204	M.RESISTOR CH 1/10W 200K	1	
R829	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R830	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R831	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R832	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R833	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R834	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R835,36	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R837	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R838,39	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R840	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R841	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R842,43	ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	2	
R844	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R845	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R847	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R848	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R849	ERJ6GMYK395	M.RESISTOR CH 1/10W 3.9M	1	
R850	ERJ6GMYJ302	M.RESISTOR CH 1/10W 3K	1	
R851	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R852	ERJ6GMYJ203	M.RESISTOR CH 1/10W 20K	1	
R856	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R859,60	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
R861	ERJ6GMYG123	M.RESISTOR CH 1/10W 12K	1	
R862	ERJ6GMYG122	M.RESISTOR CH 1/10W 1.2K	1	
R863	ERJ6GMYG102	M.RESISTOR CH 1/10W 1K	1	
R864	ERJ6GMYG101	M.RESISTOR CH 1/10W 100	1	
R865	ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R866	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R867	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1001	ERDS1TJ272	C.RESISTOR 1/2W 2.7K	1	
R1002	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1003	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R1004,05	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1006	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R1007	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R1008	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1009	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R1010	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1011	ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R1012	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R1013,14	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	2	
R1015	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1016	ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R1017	ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R1018	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2001	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2002	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2003-05	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R2006	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R2007	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2008	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2009	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2010-12	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	3	
R2013	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2014	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2015	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2016	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2017	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R2018	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2019	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2020	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2501,02	ERDS2TJ560	C.RESISTOR 1/4W 56	2	
R2503	ERDS1TJ561	C.RESISTOR 1/2W 560	1	
R2504	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2505	ERJ6GMYG432	M.RESISTOR CH 1/10W 4.3K	1	
R2506	ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R2507,08	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	2	
R2509,10	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	2	
R2511	ERDS2TJ560	C.RESISTOR 1/4W 56	1	
R2512	ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2514	ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R2515	ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R2517	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2520	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2521	ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R2522	ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R2523	ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R3001	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3002	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3003	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3004	ERJ6GMYG102	M.RESISTOR CH 1/10W 1K	1	
R3005	ERJ6GMYG471	M.RESISTOR CH 1/10W 470	1	
R3006	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3007	ERJ6GMYG911	M.RESISTOR CH 1/10W 910	1	
R3009	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3010	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3011	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3012,13	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3014	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R3015	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3016	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3017	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R3018	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R3019	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R3021	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3022	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3023	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3024	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3025	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3026,27	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R3028	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3029	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3030	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3031	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3032	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R3034	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3035	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3036	ERJ6GMYG123	M.RESISTOR CH 1/10W 12K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3037	ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R3038	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R3039	ERJ6GMYG302	M.RESISTOR CH 1/10W 3K	1	
R3040	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3041	ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R3042,43	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3044	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R3045	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3046	ERJ6GMYG622	M.RESISTOR CH 1/10W 6.2K	1	
R3047	ERJ6GMYG752	M.RESISTOR CH 1/10W 7.5K	1	
R3048	ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R3049	ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R3050	ERJ6GMYG332	M.RESISTOR CH 1/10W 3.3K	1	
R3051	ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R3052	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3053	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R3054	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3055	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3056	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3057	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3058	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3060	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3061	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R3062	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3063	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3064,65	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3066	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3068	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3069	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3070	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3072	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3073	ERJ6GMYJ112	M.RESISTOR CH 1/10W 1.1K	1	
R3076	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3077	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3078	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3079	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3080	ERJ6GMYJ203	M.RESISTOR CH 1/10W 20K	1	
R3082	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3085	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3086	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3087	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R3088	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3089	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3090	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3091	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3092	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3094	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4001,02	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	2	
R4003	ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4004,05	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R4006	ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4007	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4009	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R4010	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4011,12	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	2	
R4013	ERG2SJ681	M.RESISTOR 2W 680	1	
R4014	ERG1SJ122	M.RESISTOR 1W 1.2K	1	
R4015	ERJ6GMYG100	M.RESISTOR CH 1/10W 10	1	
R4016,17	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R4018	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4019,20	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R4021	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4022	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4023	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4024	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4025	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4026	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4027	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4038	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4039	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4040	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4041,42	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R4047	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4048	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4049	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4050	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4051	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4052	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4053	ERG1SJ680	M.RESISTOR 1W 68	1	
R4054	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4501,02	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R4503	ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	1	
R4504,05	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4506,07	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4508	ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4509	ERJ3GEYJ622	M.RESISTOR CH 1/16W 6.2K	1	
R4511	ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4512	VRE0071E163	M.RESISTOR CH 1/10W 16K	1	
R4513	ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R4514,15	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4518,19	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R4522	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4527	VRE0071E333	M.RESISTOR CH 1/10W 33K	1	
R4528	VRE0071E153	M.RESISTOR CH 1/10W 15K	1	
R4529	ERJ3GEYG562	M.RESISTOR CH 1/16W 5.6K	1	
R4530	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4534	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4535	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4539	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4541	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4542	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4543	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4551,52	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4553,54	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4558	ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4561	ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4562	VRE0034E10C	M.RESISTOR CH 1/10W	1	
R4563	ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	1	
R4568,69	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4573	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4577	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4578	VRE0071E473	M.RESISTOR CH 1/10W 47K	1	
R4581	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4583	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4584	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4585	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R4586	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4587,88	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4591	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4592	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4593	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4594	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4596	ERJ3GEYG473	M.RESISTOR CH 1/16W 47K	1	
R4597	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4598,99	ERJ3GEYG104	M.RESISTOR CH 1/16W 100K	2	
R4603	ERJ3GEYG183	M.RESISTOR CH 1/16W 18K	1	
R4606	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4610	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4611	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4612	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R4613	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R4615	ERJ3GEYJ133	M.RESISTOR CH 1/16W 13K	1	
R4616	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4638	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R4649	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4651	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4652	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4653	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4654	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4655	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4656	ERJ3GEYG243	M.RESISTOR CH 1/16W 24K	1	
R4657	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4666	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4671	ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R6001	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6003	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6006	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6007	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6008	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6009	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6012	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6013	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6014	ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R6015,16	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6018	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6019,20	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6021	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6022	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6024-26	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R6027,28	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	2	
R6029,30	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6033	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6034	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6035,36	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6037,38	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6040,41	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6043	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6044	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6046,47	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6048	ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R6049	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6050	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6051,52	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6053	ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R6054	ERJ6GMYG201	M.RESISTOR CH 1/10W 200	1	
R6055	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6056,57	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6058	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6059	ERX1SJ1R8	M.RESISTOR 1W 1.8	1	
R6060	ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R6061	ERJ6GMYG913	M.RESISTOR CH 1/10W 91K	1	
R6062	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R6063	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6064	ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R6065,66	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	2	
R6067	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6068	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R6069	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6070	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R6071	ERJ6GMYJ243	M.RESISTOR CH 1/10W 24K	1	
R6072	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6074	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6701	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6702	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6703-05	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	3	
R6706,07	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6708	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6709	ERJ6GMYJ511	M.RESISTOR CH 1/10W 510	1	
R6710	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R6711	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6712	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6713	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R6715	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6716	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6718	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6723	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6724-26	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	3	
R6727	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6728	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6729	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6730	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R6731	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R6732,33	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	2	
R6734	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6735,36	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6737	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6738	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6739	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R6740-47	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	8	
R6748	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6749	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6750	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R6751	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7301	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7302	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7303	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R7308	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R7309,10	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	2	
R7311	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7312	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7313,14	ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	2	
R7315	ERJ3GEYJ114	M.RESISTOR CH 1/16W 110K	1	
R7316	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R7317	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7320	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7321-23	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
R7324	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7325	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7326	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7327-29	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
R7330	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R7332	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7333	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7334-36	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
R7337	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R7339	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7341-43	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	3	
R7346	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7350	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7351	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7352-56	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R7357	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7362	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R7366	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7367	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7368,69	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R7370	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7371	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7376,77	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R7378	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R7379	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R7381	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R7383	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R7602,03	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	2	
R7605-07	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R7609	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7611	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7612,13	ERG2SJ331	M.RESISTOR 2W 330	2	
R7616,17	ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	2	
R7618	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7619	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
RX6701	EXBF9E103J	COMBI. R-R 10K	1	
S6001	VESO709	SWITCH	1	
S6002	VSTO176	SWITCH	1	
T0703	EQV5EC071A	TRANSFORMER	1	
T0704	EQV5EC072A	TRANSFORMER	1	
T4001	EIQ7QF013Q	TRANSFORMER	1	
T4002	EIQ7QF012Q	TRANSFORMER	1	
VR301	EVMEGSA00B23	V.RESISTOR 2K	1	
VR302	EVMEGSA00B13	V.RESISTOR 1K	1	
VR303	EVMEASA00B13	V.RESISTOR 1K	1	
VR304	EVMEGSA00B13	V.RESISTOR 1K	1	
VR305,06	EVNDCAA03B23	V.RESISTOR 2K	2	
VR0701	EVNCBAA00B24	V.RESISTOR 20K	1	
VR803	EVMEASA00B14	V.RESISTOR 10K	1	
VR804	EVMEGSA00B53	V.RESISTOR 5K	1	
VR805	EVNDCAA03B23	V.RESISTOR 2K	1	
VR2001	EVNCYAA03B54	V.RESISTOR 50K	1	
VR3001-04	EVMF6SA00B14	V.RESISTOR 10K	4	
VR3005	EVMF6SA00B24	V.RESISTOR 20K	1	
VR3014	EVNCYAA03B54	V.RESISTOR 50K	1	
VR4001	EVNCYAA03B15	V.RESISTOR 100K	1	
VR4501	EVMECSA00B53	V.RESISTOR 5K	1	
VR4502	EVMEASA00BY4	V.RESISTOR 33K	1	
VR4507	EVMEASA00BY4	V.RESISTOR 33K	1	
VR4509	EVMECSA00BY3	V.RESISTOR 3.3K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
VR4512	EVNCBAA00B52	V. RESISTOR 500	1	
VR4550	EVMECSA00B14	V. RESISTOR 10K	1	
VR4551, 52	EVMEASA00B55	V. RESISTOR 500K	2	
X0701	VLF1178	FILTER	1	
X0703	EFCT5R5MW5	CRYSTAL OSCILLATOR	1	
X0704	VLF1035	FILTER	1	
X801	VSX0406	CRYSTAL OSCILLATOR	1	
X6001	VSX0583	CRYSTAL OSCILLATOR	1	
X6701	VSX0583	CRYSTAL OSCILLATOR	1	
X6702	VSX0353	CRYSTAL OSCILLATOR	1	
X7302	VSX0683	CRYSTAL OSCILLATOR	1	
X7303	EFOGC4004A4	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VMD2328	REEL GUIDE	1	
	VMD2329	PHOTO TRANSISTOR HOLDER	2	FOR Q6002, 03
	VMD2330	LED HOLDER	1	FOR D6005
	VMP4471	TV DEMODULATOR ANGLE	1	FOR TV DEMODU. C. B. A.
	VMP4894	SUPPORT ANGLE	2	FOR LUMI. & CHROMI. C. B. A.
	VMT0784	SPACER	1	FOR NICAM DECODER C. B. A.
	VSC3553	SHIELD COVER (MAIN)	1	FOR NICAM DECODER C. B. A.
	VSC3555	SHIELD COVER (BOTTOM)	1	FOR NICAM DECODER C. B. A.
■	VEP03B75C	INPUT/OUTPUT C. B. A.		(RTL)
				NV-HS900B
C3901	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1	
C3902	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C3904	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1	
C3905	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C3917	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1	
C3918	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C3919	ECEA0JKA221	E. CAPACITOR 6. 3V 220U	1	
C3920	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1	
C3921	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C3932, 33	ECEA1CKA100	E. CAPACITOR 16V 10U	2	
C4901, 02	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	2	
C4903	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C4904	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1	
C4905	ECEA0JKA331	E. CAPACITOR 6. 3V 330U	1	
C4906	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1	
C4907-14	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	8	
D3901	MA4056M	DIODE	1	
D3902	MA4130L	DIODE	1	
D3903	1SS254	DIODE	1	
D3904	MA151K	DIODE	1	
D3905	1SS254	DIODE	1	
D3906	MA151K	DIODE	1	
D3907	MA151WK	DIODE	1	
D3908	MA151WA	DIODE	1	
D4901	MA4056M	DIODE	1	
IC3901	MC14051BF	IC	1	
IC3906	BU12101-06	IC	1	
IC3907	AN1393S	IC	1	
IC3908	MC14052BF	IC	1	
IC3909	MC14053BF	IC	1	
IC4901, 02	MC14052BF	IC	2	
IC4903, 04	NJM4558M	IC	2	
JK1	VEJ1679	JACK	1	
JK3901, 02	VJS1470	CONNECTOR (FEMALE)	2	
K3902, 03	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	2	
L3905	VLQ0599J680	COIL 68UH	1	
L4907	VLQ0599J680	COIL 68UH	1	
P3901	VJP1243T	CONNECTOR (MALE) 3P	1	
P3902	VJP3234B010	CONNECTOR (MALE) 10P	1	
PS3901, 02	VJS3043F011W	CONNECTOR (FEMALE) 11P	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
PS3903	VJS3043B010W	CONNECTOR (FEMALE) 10P	1	
PS3904	VJS3043B012W	CONNECTOR (FEMALE) 12P	1	
Q3904	2SD1996	TRANSISTOR	1	
Q3905	MSD601	TRANSISTOR	1	
Q3908	XN1501	TRANSISTOR-TRANSISTOR	1	
Q3909	MSB709	TRANSISTOR	1	
Q3910	MSD601	TRANSISTOR	1	
Q3911	MSB709	TRANSISTOR	1	
Q3912	MSD601	TRANSISTOR	1	
Q3914	MSD602	TRANSISTOR	1	
Q3915	XN4402	TRANSISTOR-TRANSISTOR	1	
QR3901	MUN2111	TRANSISTOR-RESISTOR	1	
QR3902	MUN2213	TRANSISTOR-RESISTOR	1	
QR3903	XN1213	TRANSISTOR-RESISTOR	1	
QR3904	MUN2213	TRANSISTOR-RESISTOR	1	
QR3906	XN1211	TRANSISTOR-RESISTOR	1	
QR3907	MUN2213	TRANSISTOR-RESISTOR	1	
QR3908	UN2216	TRANSISTOR-RESISTOR	1	
R3911	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3. 3K	1	
R3912, 13	ERDS2TJ472	C. RESISTOR 1/4W 4. 7K	2	
R3914	ERDS2TJ223	C. RESISTOR 1/4W 22K	1	
R3915-19	ERJ6GMYJ750	M. RESISTOR CH 1/10W 75	5	
R3920	ERDS2TJ471	C. RESISTOR 1/4W 470	1	
R3921	ERJ6GMYJ750	M. RESISTOR CH 1/10W 75	1	
R3922	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	1	
R3923	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R3924	ERJ6GMYJ123	M. RESISTOR CH 1/10W 12K	1	
R3925	ERJ6GMYJ822	M. RESISTOR CH 1/10W 8. 2K	1	
R3926	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R3928, 29	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	2	
R3930	ERJ6GMYJ750	M. RESISTOR CH 1/10W 75	1	
R3931	ERJ6GMYJ331	M. RESISTOR CH 1/10W 330	1	
R3932	ERJ6GMYJ333	M. RESISTOR CH 1/10W 33K	1	
R3933	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	1	
R3934	ERJ6GMYJ111	M. RESISTOR CH 1/10W 110	1	
R3935	ERJ6GMYJ121	M. RESISTOR CH 1/10W 120	1	
R3936	ERJ6GMYJ750	M. RESISTOR CH 1/10W 75	1	
R3937	ERJ6GMYJ333	M. RESISTOR CH 1/10W 33K	1	
R3938	ERJ6GMYJ331	M. RESISTOR CH 1/10W 330	1	
R3939	ERJ6GMYJ121	M. RESISTOR CH 1/10W 120	1	
R3940	ERJ6GMYJ111	M. RESISTOR CH 1/10W 110	1	
R3941	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	1	
R3942	ERJ6GMYJ272	M. RESISTOR CH 1/10W 2. 7K	1	
R3943	ERDS2TJ332	C. RESISTOR 1/4W 3. 3K	1	
R3944	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3. 3K	1	
R3945	ERJ6GMYJ562	M. RESISTOR CH 1/10W 5. 6K	1	
R3946	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3. 3K	1	
R3947	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	1	
R3948	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R3949	ERDS2TJ681	C. RESISTOR 1/4W 680	1	
R3950, 51	ERJ6GMYJ750	M. RESISTOR CH 1/10W 75	2	
R3952	ERJ6GMYJ682	M. RESISTOR CH 1/10W 6. 8K	1	
R3953-55	ERJ6GMYJ750	M. RESISTOR CH 1/10W 75	3	
R3958, 59	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3. 3K	2	
R3960	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R3961	ERJ6GMYJ273	M. RESISTOR CH 1/10W 27K	1	
R3962	ERJ6GMYJ183	M. RESISTOR CH 1/10W 18K	1	
R4901, 02	ERJ6GMYJ471	M. RESISTOR CH 1/10W 470	2	
R4903	ERJ6GMYJ392	M. RESISTOR CH 1/10W 3. 9K	1	
R4904-07	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	4	
R4908	ERJ6GMYJ683	M. RESISTOR CH 1/10W 68K	1	
R4909	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	1	
R4911	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	1	
R4912	ERJ6GMYJ683	M. RESISTOR CH 1/10W 68K	1	
R4914	ERJ6GMYJ392	M. RESISTOR CH 1/10W 3. 9K	1	
R4915-18	ERJ6GMYJ101	M. RESISTOR CH 1/10W 100	4	
R4919	ERJ6GMYJ474	M. RESISTOR CH 1/10W 470K	1	
R4920	ERJ6GMYJ393	M. RESISTOR CH 1/10W 39K	1	
R4921	ERJ6GMYJ474	M. RESISTOR CH 1/10W 470K	1	
R4922	ERJ6GMYJ393	M. RESISTOR CH 1/10W 39K	1	
R4923	ERJ6GMYJ474	M. RESISTOR CH 1/10W 470K	1	
R4924	ERJ6GMYJ393	M. RESISTOR CH 1/10W 39K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4925	ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R4926	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R4927,28	ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	2	
R4929-32	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	4	
S3901	VSS0513	SWITCH	1	
S3902	ESD172311	SWITCH	1	
		MISCELLANEOUS		
	XTV3+8GFZ	SCREW	4	
■	VEP03B75A	INPUT/OUTPUT C.B.A.		(RTL)
				NV-HS900EG
C3901	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3902	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3904	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3905	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3917	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3918	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3919	ECEA1AKA470	E.CAPACITOR 10V 47U	1	
C3920	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3921	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3932,33	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C4901,02	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C4903	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4904	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4905	ECEA0JKA331	E.CAPACITOR 6.3V 330U	1	
C4906	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4907-14	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	8	
D3901	MA4056M	DIODE	1	
D3902	MA4130L	DIODE	1	
D3903	1SS254	DIODE	1	
D3904	MA151K	DIODE	1	
D3905	1SS254	DIODE	1	
D3906	MA151K	DIODE	1	
D3907	MA151WK	DIODE	1	
D3908	MA151WA	DIODE	1	
D4901	MA4056M	DIODE	1	
IC3901	MC14051BF	IC	1	
IC3906	BU12101-06	IC	1	
IC3907	AN1393S	IC	1	
IC3908	MC14052BF	IC	1	
IC3909	MC14053BF	IC	1	
IC4901,02	MC14052BF	IC	2	
IC4903,04	NJM4558M	IC	2	
JK1	VEJ1541	JACK	1	
JK3901,02	VJS1470	CONNECTOR (FEMALE)	2	
K3901	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
K3904	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
L3905	VLQ0599J680	COIL 68UH	1	
L4907	VLQ0599J680	COIL 68UH	1	
P3901	VJP1243T	CONNECTOR (MALE) 3P	1	
P3902	VJP3234B010	CONNECTOR (MALE) 10P	1	
PS3901,02	VJS3043F011W	CONNECTOR (FEMALE) 11P	2	
PS3903	VJS3043B010W	CONNECTOR (FEMALE) 10P	1	
PS3904	VJS3043B012W	CONNECTOR (FEMALE) 12P	1	
Q3904	2SD1996	TRANSISTOR	1	
Q3905	MSD601	TRANSISTOR	1	
Q3908	XN1501	TRANSISTOR-TRANSISTOR	1	
Q3909	MSB709	TRANSISTOR	1	
Q3910	MSD601	TRANSISTOR	1	
Q3911	MSB709	TRANSISTOR	1	
Q3912	MSD601	TRANSISTOR	1	
Q3914	MSD602	TRANSISTOR	1	
Q3915	XN4402	TRANSISTOR-TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR3901	MUN2111	TRANSISTOR-RESISTOR	1	
QR3902	MUN2213	TRANSISTOR-RESISTOR	1	
QR3903	XN1213	TRANSISTOR-RESISTOR	1	
QR3904	MUN2213	TRANSISTOR-RESISTOR	1	
QR3906	XN1211	TRANSISTOR-RESISTOR	1	
QR3907	MUN2213	TRANSISTOR-RESISTOR	1	
QR3908	UN2216	TRANSISTOR-RESISTOR	1	
R3911	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3912,13	ERDS2TJ472	C.RESISTOR 1/4W 4.7K	2	
R3914	ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R3915-19	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	5	
R3920	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3921	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3922	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3923	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3924	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R3925	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3926	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3928,29	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R3930	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3931	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R3932	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3933	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3934	ERJ6GMYJ111	M.RESISTOR CH 1/10W 110	1	
R3935	ERJ6GMYJ121	M.RESISTOR CH 1/10W 120	1	
R3936	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3937	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3938	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R3939	ERJ6GMYJ121	M.RESISTOR CH 1/10W 120	1	
R3940	ERJ6GMYJ111	M.RESISTOR CH 1/10W 110	1	
R3941	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3942	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3943	ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R3944	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3945	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3946	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3947	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3948	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3949	ERDS2TJ681	C.RESISTOR 1/4W 680	1	
R3950,51	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	2	
R3952	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3953-55	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	3	
R3958,59	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R3960	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3961	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R3962	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R4901,02	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R4903	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4904-07	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	4	
R4908	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4909	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4911	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4912	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4914	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4915-18	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	4	
R4919	ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R4920	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R4921	ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R4922	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R4923	ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R4924	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R4925	ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R4926	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R4927,28	ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	2	
R4929-32	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	4	
S3901	VSS0513	SWITCH	1	
S3902	ESD172311	SWITCH	1	
		MISCELLANEOUS		
	XTV3+8GFZ	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP05176G	HEAD AMP C.B.A.	1	(RTL)
C503	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C505-08	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	4	
C509	ECUM1H332KBN	C. CAPACITOR CH 50V 3300P	1	
C510,11	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C512	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C513	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C514	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C515,16	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C517,18	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C519,20	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C521	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C523-25	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C526	VCEA0JAC221	E. CAPASITOR 6.3V 220U	1	
C527	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C531	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C532	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1	
C533,34	ECUM1H121JCN	C. CAPACITOR CH 50V 120P	2	
C535	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C536	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C537	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C538,39	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	2	
C540	ECEA1CK470	E. CAPACITOR 16V 47U	1	
C551	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C552-54	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	3	
C555	ECEA0JPK221	E. CAPACTIOR 6.3V 220U	1	
C556,57	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C559	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C560,61	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	2	
C562,63	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	2	
C564	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C565	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C566	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C567	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C569	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
IC501	AN3336SB	IC	1	
IC502	AN3370K	IC	1	
IC551	BA7743FS	IC	1	
K501	VLP0145	COIL	1	
K502	ERJ6GMZ0R00	M. RESISTOR CH 1/10W 0	1	
K503,04	VLP0145	COIL	2	
K505	ERJ6GMZ0R00	M. RESISTOR CH 1/10W 0	1	
K506	VLP0145	COIL	1	
K552	ERJ6GMZ0R00	M. RESISTOR CH 1/10W 0	1	
L501-03	VLQ0540K330	COIL 33UH	3	
L504	VLQ0540J5R6	COIL 5.6UH	1	
L551,52	VLQ0540K330	COIL 33UH	2	
P501	VJS3537B020G	CONNECTOR (FEMALE) 20P	1	
P502	VJS2603	CONNECTOR (FEMALE)	1	
Q501	MSB709	TRANSISTOR	1	
Q502	MSD601	TRANSISTOR	1	
QR501	MRN2404TE85L	TRANSISTOR-RESISTOR	1	
R501	ERJ6GMYJ101	M. RESISTOR CH 1/10W 100	1	
R502	ERJ6GEYJ152	M. RESISTOR CH 1/10W 1.5K	1	
R503	ERJ6GMYG752	M. RESISTOR CH 1/10W 7.5K	1	
R504	ERJ6GMYJ333	M. RESISTOR CH 1/10W 33K	1	
R505	ERJ6GMYJ182	M. RESISTOR CH 1/10W 1.8K	1	
R506	ERJ6GMYJ392	M. RESISTOR CH 1/10W 3.9K	1	
R507	ERJ6GMYJ391	M. RESISTOR CH 1/10W 390	1	
R508	ERJ6GMYJ331	M. RESISTOR CH 1/10W 330	1	
R509-12	ERJ6GMYJ101	M. RESISTOR CH 1/10W 100	4	
R513	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R514	ERJ6GMYJ274	M. RESISTOR CH 1/10W 270K	1	
R517	ERJ6GMYJ100	M. RESISTOR CH 1/10W 10	1	
R518,19	ERJ6GMYJ101	M. RESISTOR CH 1/10W 100	2	
R520	ERJ6GMYJ152	M. RESISTOR CH 1/10W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R521,22	ERJ6GMYJ822	M. RESISTOR CH 1/10W 8.2K	2	
R523	ERJ6GMYJ152	M. RESISTOR CH 1/10W 1.5K	1	
R524	VRE0034E182	M. RESISTOR CH 1/10W 1.8K	1	
R525	VRE0034E103	M. RESISTOR CH 1/10W 10K	1	
R526	ERJ6GMYG133	M. RESISTOR CH 1/10W 13K	1	
R551	ERJ6GMYJ473	M. RESISTOR CH 1/10W 47K	1	
R552	ERJ6GMYJ391	M. RESISTOR CH 1/10W 390	1	
R553	ERJ6GMYJ273	M. RESISTOR CH 1/10W 27K	1	
R554	ERJ6GMYJ243	M. RESISTOR CH 1/10W 24K	1	
R556	ERJ6GMYJ333	M. RESISTOR CH 1/10W 33K	1	
R557	ERJ6GMYJ182	M. RESISTOR CH 1/10W 1.8K	1	
R558	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	1	
R559,60	ERJ6GMYJ152	M. RESISTOR CH 1/10W 1.5K	2	
R561	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	1	
R562	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R563	VRE0034E100	M. RESISTOR CH 1/10W 10	1	
R564	ERJ6GMYJ224	M. RESISTOR CH 1/10W 220K	1	
R565	ERJ6GMYJ473	M. RESISTOR CH 1/10W 47K	1	
R566	ERJ6GMYJ273	M. RESISTOR CH 1/10W 27K	1	
R567	ERJ6GMYJ153	M. RESISTOR CH 1/10W 15K	1	
R568	ERJ6GMYJ271	M. RESISTOR CH 1/10W 270	1	
R569	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	1	
R570	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
		MISCELLANEOUS		
	VSC3478	SHIELD COVER (MAIN)	1	
	VSC3714	SHIELD COVER (TOP)	1	
	VSC3715	SHIELD COVER (BOTTOM)	1	
■	VEP07808G	TIMER C.B.A.		(RTL)
				NV-HS900B
C7501	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C7504	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C7505	ECUM1H221JCN	C. CAPACITOR CH 50V 220P	1	
C7506	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C7507	ECEA0JKS470	E. CAPACITOR 6.3V 47U	1	
C7508	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7509	ECEA1HKS100	E. CAPACITOR 50V 10U	1	
C7510	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C7511	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1	
C7513	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C7514	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1	
C7515	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7516	ECEA1AKS221	E. CAPACITOR 10V 220U	1	
C7517,18	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C7519,20	ECEA1EKS4R7	E. CAPACITOR 25V 4.7U	2	
C7521	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1	
C7522	ECEA0JKS220	E. CAPACITOR 6.3V 22U	1	
C7524	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7525	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C7526,27	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C7528,29	ECUM1H473ZFN	C. CAPACITOR CH 50V 0.047U	2	
D7501	MA151K	DIODE	1	
D7502-06	1SS254	DIODE	5	
D7507	MA151K	DIODE	1	
D7510,11	MA151K	DIODE	2	
D7514	MA151K	DIODE	1	
D7516-19	MA151K	DIODE	4	
D7521	MA151K	DIODE	1	
D7528	MA151K	DIODE	1	
D7529	MA723VT	DIODE	1	
D7530	MA151K	DIODE	1	
D7531	1SS254	DIODE	1	
D7532	MA4220	DIODE	1	
D7542	MA151K	DIODE	1	
D7544	MA151K	DIODE	1	
D7546	1SS254	DIODE	1	
DP7501	VSL0336	DISPLAY TUBE	1	
IC7501	M37507V6AD	IC	1	
IC7503	RPM675CBRX10	IR RECEIVER UNIT	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC7504	PST7023	IC	1	
IC7505	S80743AL	IC	1	
IC7506	BA6810F	IC	1	
K7504	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
P7501	VJS3537A032G	CONNECTOR (FEMALE) 32P	1	
P7504	VJS3405A013A	CONNECTOR (FEMALE) 13P	1	
PP7501	VJS3301	CONNECTOR (FEMALE)	1	
QR7501	MUN2112	TRANSISTOR-RESISTOR	1	
QR7505-08	MUN2113	TRANSISTOR-RESISTOR	4	
QR7509-11	MUN2111	TRANSISTOR-RESISTOR	3	
QR7512, 13	MUN2112	TRANSISTOR-RESISTOR	2	
R7501-04	ERJ6GMYJ221	M. RESISTOR CH 1/10W 220	4	
R7505, 06	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	2	
R7508-10	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	3	
R7512	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R7513	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	1	
R7514	ERJ6GMYJ221	M. RESISTOR CH 1/10W 220	1	
R7515	ERDS2TJ470	C. RESISTOR 1/4W 47	1	
R7516	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	1	
R7517	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R7518	ERJ6GMYJ221	M. RESISTOR CH 1/10W 220	1	
R7519	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R7520, 21	ERJ6GMYJ221	M. RESISTOR CH 1/10W 220	2	
R7522	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
R7523	ERJ6GMYJ101	M. RESISTOR CH 1/10W 100	1	
R7524	ERJ6GMYJ331	M. RESISTOR CH 1/10W 330	1	
R7525	ERJ6GMYJ224	M. RESISTOR CH 1/10W 220K	1	
R7527	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	1	
R7528	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R7529, 30	ERJ6GMYJ473	M. RESISTOR CH 1/10W 47K	2	
R7532	ERJ6GMYJ272	M. RESISTOR CH 1/10W 2.7K	1	
R7534, 35	ERJ6GMYJ132	M. RESISTOR CH 1/10W 1.3K	2	
R7536	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
R7537, 38	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	2	
RX7501, 02	EXBF6E104J	RESISTOR-RESISTOR	2	
RX7503	EXBF8E104J	COMBI. R-R 100K	1	
S7501-11	EVQ11409K	SWITCH	11	
S7512	VSQ0822	JOG/SHUTTLE ENCODER	1	
VC7501	ECRHA010A54R	V. CAPACITOR 50K	1	
VR4004	EVNCYAA03B53	V. RESISTOR 5K	1	
X7501	VSX0608	CRYSTAL OSCILLATOR	1	
X7502	VSX0094	CRYSTAL OSCILLATOR	1	
ZB7501	VJF1139	FIP HOLDER	1	
ZB7502	VMD2247	IR RECEIVER HOLDER	1	
ZB7503	VMD2035	JOG/SHUTTLE HOLDER	1	
■	VEP07808D	TIMER C. B. A.		(RTL)
				NV-HS900EG
C7501	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C7504	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C7505	ECUM1H221JCN	C. CAPACITOR CH 50V 220P	1	
C7506	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C7507	ECEA0JKS470	E. CAPACITOR 6.3V 47U	1	
C7508	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7509	ECEA1HKS100	E. CAPACITOR 50V 10U	1	
C7510	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C7511	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1	
C7513	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C7514	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1	
C7515	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7516	ECEA1AKS221	E. CAPACITOR 10V 220U	1	
C7517, 18	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7519, 20	ECEA1EKS4R7	E. CAPACITOR 25V 4.7U	2	
C7521	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1	
C7522	ECEA0JKS220	E. CAPACITOR 6.3V 22U	1	
C7524	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C7525	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C7526, 27	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C7528, 29	ECUM1H473ZFN	C. CAPACITOR CH 50V 0.047U	2	
D7501	MA151K	DIODE	1	
D7502-06	1SS254	DIODE	5	
D7507	MA151K	DIODE	1	
D7510-12	MA151K	DIODE	3	
D7514	MA151K	DIODE	1	
D7516-19	MA151K	DIODE	4	
D7528	MA151K	DIODE	1	
D7529	MA723VT	DIODE	1	
D7530	MA151K	DIODE	1	
D7531	1SS254	DIODE	1	
D7532	MA4220	DIODE	1	
D7542	MA151K	DIODE	1	
D7544	MA151K	DIODE	1	
D7546	1SS254	DIODE	1	
DP7501	VSL0336	DISPLAY TUBE	1	
IC7501	M37507V6AD	IC	1	
IC7503	RPM675CBRX10	IR RECEIVER UNIT	1	
IC7504	PST7023	IC	1	
IC7505	S80743AL	IC	1	
IC7506	BA6810F	IC	1	
K7504	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
P7501	VJS3537A032G	CONNECTOR (FEMALE) 32P	1	
P7504	VJS3405A013A	CONNECTOR (FEMALE) 13P	1	
PP7501	VJS3301	CONNECTOR (FEMALE)	1	
QR7501	MUN2112	TRANSISTOR-RESISTOR	1	
QR7505-08	MUN2113	TRANSISTOR-RESISTOR	4	
QR7509-11	MUN2111	TRANSISTOR-RESISTOR	3	
QR7512, 13	MUN2112	TRANSISTOR-RESISTOR	2	
R7501-04	ERJ6GMYJ221	M. RESISTOR CH 1/10W 220	4	
R7505, 06	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	2	
R7508-10	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	3	
R7512	ERJ6GMYJ103	M. RESISTOR CH 1/10W 10K	1	
R7513	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	1	
R7514	ERJ6GMYJ221	M. RESISTOR CH 1/10W 220	1	
R7515	ERDS2TJ470	C. RESISTOR 1/4W 47	1	
R7516	ERJ6GMYJ332	M. RESISTOR CH 1/10W 3.3K	1	
R7517	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R7518	ERJ6GMYJ221	M. RESISTOR CH 1/10W 220	1	
R7519	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R7520, 21	ERJ6GMYJ221	M. RESISTOR CH 1/10W 220	2	
R7522	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
R7523	ERJ6GMYJ101	M. RESISTOR CH 1/10W 100	1	
R7524	ERJ6GMYJ331	M. RESISTOR CH 1/10W 330	1	
R7525	ERJ6GMYJ224	M. RESISTOR CH 1/10W 220K	1	
R7527	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	1	
R7528	ERJ6GMYJ102	M. RESISTOR CH 1/10W 1K	1	
R7529, 30	ERJ6GMYJ473	M. RESISTOR CH 1/10W 47K	2	
R7532	ERJ6GMYJ272	M. RESISTOR CH 1/10W 2.7K	1	
R7534, 35	ERJ6GMYJ132	M. RESISTOR CH 1/10W 1.3K	2	
R7536	ERJ6GMZOR00	M. RESISTOR CH 1/10W 0	1	
R7537, 38	ERJ6GMYJ223	M. RESISTOR CH 1/10W 22K	2	
RX7501, 02	EXBF6E104J	RESISTOR-RESISTOR	2	
RX7503	EXBF8E104J	COMBI. R-R 100K	1	
S7501-11	EVQ11409K	SWITCH	11	
S7512	VSQ0822	JOG/SHUTTLE ENCODER	1	
VC7501	ECRHA010A54R	V. CAPACITOR 50K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
VR4004	EVNGYAA03B53	V. RESISTOR 5K	1	
X7501	VSX0608	CRYSTAL OSCILLATOR	1	
X7502	VSX0094	CRYSTAL OSCILLATOR	1	
ZB7501	VJF1139	FIP HOLDER	1	
ZB7502	VMD2247	IR RECEIVER HOLDER	1	
ZB7503	VMD2035	JOG/SHUTTLE HOLDER	1	
■	VEP06A17A	VR C.B.A.		(RTL)
C6501, 02	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	2	
C6503, 04	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C6505	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C6506	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1	
C6507	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C6508	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C6509	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1	
C6512	ECEA1CKA330	E. CAPACITOR 16V 33U	1	
C6513	ECEA1EKS3R3	E. CAPACITOR 25V 3.3U	1	
C6514	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C6515	ECEA1AKA330	E. CAPACITOR 10V 33U	1	
D6504	HLMK-D300	DIODE	1	
D6505	HLMK-D200	DIODE	1	
D6506-08	1SS254	DIODE	3	
D6511	HLMK-D500	DIODE	1	
IC6501	VCR0172	IC	1	
J4801	VJJ0329	JACK	1	
J4802	VJJ0308	JACK	1	
J4803	VJJ0242	JACK	1	
J6501	VEJ1341	JACK	1	
L6501, 02	ELESE101KA	COIL 100UH	2	
L6503, 04	ELESE221KA	COIL 220UH	2	
L6505, 06	ELESE471KA	COIL 470UH	2	
LB4801	VLP0145	COIL	1	
P6501	VJP3405A013W	CONNECTOR (MALE) 13P	1	
P6502	VJP3234B010	CONNECTOR (MALE) 10P	1	
P6503	VJP1930T	CONNECTOR (MALE)	1	
PP6001, 02	VJP3042A005W	CONNECTOR (MALE) 5P	2	
PS4801, 02	VJS3042B005W	CONNECTOR (FEMALE) 5P	2	
QR6501	UN221F	TRANSISTOR-RESISTOR	1	
QR6502	UN211F	TRANSISTOR-RESISTOR	1	
QR6503	UN221F	TRANSISTOR-RESISTOR	1	
QR6504	MUN2211	TRANSISTOR-RESISTOR	1	
QR6505	UN2119	TRANSISTOR-RESISTOR	1	
R6504	ERJ6GMYJ271	M. RESISTOR CH 1/10W 270	1	
R6505	ERJ6GMYJ471	M. RESISTOR CH 1/10W 470	1	
R6507	ERJ6GMYG271	M. RESISTOR CH 1/10W 270	1	
R6509	ERJ6GMYJ271	M. RESISTOR CH 1/10W 270	1	
R6510, 11	ERJ6GMYJ222	M. RESISTOR CH 1/10W 2.2K	2	
R6513	ERJ6GMYG271	M. RESISTOR CH 1/10W 270	1	
R6514	ERJ6GMYG331	M. RESISTOR CH 1/10W 330	1	
R6515	ERJ6GMYG332	M. RESISTOR CH 1/10W 3.3K	1	
R6516	ERJ6GMYG331	M. RESISTOR CH 1/10W 330	1	
R6517	ERJ6GMYG332	M. RESISTOR CH 1/10W 3.3K	1	
S6501, 02	EVQ11409K	SWITCH	2	
S6503	VSS0405	SWITCH	1	
S6506	VSS0404	SWITCH	1	
VR6501	EVUF3AF15B24	V. RESISTOR 20K	1	
VR6502	EVJYM0F15C23	V. RESISTOR 2K	1	
VR6503, 04	EVJ021F1554J	V. RESISTOR	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
ZB4801	VJF1076	JACK HOLDER,	1	
		MISCELLANEOUS		
	VGU5986	SLIDE KNOB	2	
	VGU6968	H.P VR KNOB	4	
	VMD0504	LED HOLDER	3	
⚠ ■	VEP01639A	POWER C.B.A.		(RTL)
⚠C1101-03	ECKMWS102MEH	C. CAPACITOR 1000P	3	
⚠C1105, 06	ECQU2A154MV	P. CAPACITOR 100V 0.15U	2	
C1107	ECEG2GG121HZ	E. CAPACITOR 400V 120U	1	
C1108	ECGZ3A121KGE	C. CAPACITOR 1KV 120	1	
C1109	ECKW2H103PU	C. CAPACITOR 500V 0.01U	1	
C1110	ECA0GXLV331	E. CAPACITOR 4V 330U	1	
C1111	ECKF1H102KB	C. CAPACITOR 50V 1000P	1	
C1112	ECQB1H822JF	P. CAPACITOR 50V 8200P	1	
C1113	ECQE6104KF	P. CAPACITOR 630V 0.1U	1	
C1114	ECA1VXLV470	E. CAPACITOR 35V 47U	1	
C1121	EEUFA1E272	E. CAPACITOR 25V 2700U	1	
⚠C1122	EEUFA1E102	E. CAPACITOR 25V 1000U	1	
C1123	ECKD2H101KB	C. CAPACITOR 500V 100P	1	
C1124	EEUFA1A332	E. CAPACITOR 10V 3300U	1	
C1125	EEUFA1A102	E. CAPACITOR 10V 1000U	1	
C1126	ECKD2H101KB	C. CAPACITOR 500V 100P	1	
C1127	EEUFA1H820	E. CAPACITOR 50V 82U	1	
C1128	ECKF1H103ZF	C. CAPACITOR 50V 0.01U	1	
C1129	ECKD2H101KB	C. CAPACITOR 500V 100P	1	
C1130	EEUFA1V151	E. CAPACITOR 35V 150U	1	
C1131	ECKF1H103ZF	C. CAPACITOR 50V 0.01U	1	
C1132	ECKD2H101KB	C. CAPACITOR 500V 100P	1	
C1133	EEUFA0J561	E. CAPACITOR 6.3V 560U	1	
C1134, 35	ECQB1H103JF	P. CAPACITOR 50V 0.01U	2	
⚠D1102	S1WBA60S	DIODE	1	
D1103	AP01G	DIODE	1	
D1104	MA178	DIODE	1	
D1105	MA700	DIODE	1	
D1106	MA4200H	DIODE	1	
D1107	1SS254	DIODE	1	
D1108, 09	ERA15-08	DIODE	2	
D1110	RD100E	DIODE	1	
D1121	F5KF20B	DIODE	1	
D1122	F5KQ40	DIODE	1	
D1123	ERA22-02	DIODE	1	
D1124	MA185	DIODE	1	
D1125	11EQS04	DIODE	1	
D1126	MA4047-M	DIODE	1	
D1127	MA4043-L	DIODE	1	
⚠IC1101	STRM6559LF	IC	1	
⚠L1101, 02	ELF18D221F	COIL 220UH	2	
L1103, 04	VLP0083	COIL	2	
L1105	VLP0085	COIL	1	
L1106	VLP0083	COIL	1	
L1121, 22	VLQ0611K220	COIL 22UH	2	
L1123, 24	ELESE101KA	COIL 100UH	2	
⚠P1101	VJS3306	AC INLET	1	
P1102	VJP3631A011W	CONNECTOR (MALE) 11P	1	
⚠Q1101	PC120FY	TRANSISTOR	1	
QR1121	UN6213	TRANSISTOR-RESISTOR	1	
⚠R1101	ERC12AGM334	S. RESISTOR 1/2W 330K	1	
R1102	ERG1SJ393	M. RESISTOR 1W 39K	1	
R1105	ERDS1TJ395	C. RESISTOR 1/2W 3.9M	1	
R1106	ERDS1TJ475	C. RESISTOR 1/2W 4.7M	1	
R1107	ERDS2FJ224	C. RESISTOR 1/4W 220K	1	
R1108	ERDS2FJ101	C. RESISTOR 1/4W 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1109	ERDS2FJ152	C.RESISTOR 1/4W 1.5K	1	
R1110	ERDS2FJ103	C.RESISTOR 1/4W 10K	1	
R1111	ERDS2FJ561	C.RESISTOR 1/4W 560	1	
R1112	ERDS2FJ331	C.RESISTOR 1/4W 330	1	
R1113	ERX1SJR82	M.RESISTOR 1W 0.82	1	
R1114	ERDS2FJ222	C.RESISTOR 1/4W 2.2K	1	
R1115	ERDS2FJ100	C.RESISTOR 1/4W 10	1	
R1121	ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R1122	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
⚠T1101	ETE28K100BY	TRANSFORMER	1	
⚠ZA1101,02	EYF52BC	FUSE HOLDER	2	
ZA1103	VSC4205	SHIELD COVER	1	
ZA1104,05	VSC3434	SHIELD COVER	2	
ZA1106	VSC4259	SHIELD COVER	1	
ZA1109,10	XTN3+8G	SCREW	2	
ZA1111	XTN3+10G	SCREW	1	
⚠ZB1101,02	VMZ2212	CAPACITOR COVER	2	
■	VEX0231	CYLINDER DRIVE C.B.A.		(RTL)
C2901-03	ECEA1VSN2R2	E.CAPACITOR 35V 2.2U	3	
C2904-06	ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	3	
C2907	ECUM1E683KBM	C.CAPACITOR CH 25V 0.068U	1	
C2908	ECUM1E473KBM	C.CAPACITOR CH 25V 0.047U	1	
C2910	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
IC2901	AN3814K	IC	1	
P2901	VJP2603W	CONNECTOR (MALE)	1	
P2902	VJP1232T	CONNECTOR (MALE) 5P	1	
R2901	ERX12SJR68	M.RESISTOR CH 1/2W 0.68	1	
TH2901	VRH0017	THERMISTOR	1	
W2917-19	ERJ6GMY0R00	M.RESISTOR CH 1/10W 0	3	
■	————	MOTOR C.B.A.		
		MISCELLANEOUS		
	VJP3316B002	CONNECTOR (MALE) 2P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

INTERNAL REFERENCE CODE

NOTE : This chart is only for internal reference.
Do not order any parts according to these codes.

P. C. B.	FILM CODE
MAIN	HOAI01-03B73
LUMINANCE & CHROMINANCE	HOAI00-03B74
HEAD AMP	HOAI04-05176
TIMER SYUUGOU (FRONT JACK / VR / TIMER)	HOAI01-0325A
HI FI	HOAI00-04447
INPUT/OUTPUT	HOAI00-03B75
NICAM DECORDER	HOAI00-07787
TV DEMODULATOR	HOAI00-07801
CYLINDER DRIVE	HOAI00-00X69
POWER	HOAI00-01639

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